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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MAGNETIC, METEOROLOGICAL AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES,

BOMBAY AND ALIBAG,

IN THE YEAR

1927

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.

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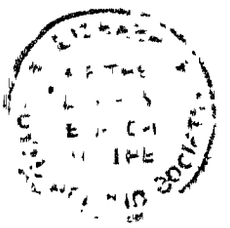

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INTRODUCTION.

This volume on the magnetic, meteorological and seismographic observations made at the Government Observatories, Bombay and Alibag, during the year 1927, has been prepared in the same form as the volume for the year 1926. The hourly values of all the important meteorological and magnetic elements have been given and these represent their average values over one hour and not their momentary values at the end of every hour. This volume is the forty-ninth volume of its kind issued by the Observatory and extends the records of continuous meteorological and magnetic observations to a period of eightytwo years and of seismographic observations to a period of twentynine years. The transference of magnetic work from Colaba to Alibag in 1904, due to the city of Bombay having decided to have electric tram service, caused a certain amount of discontinuity in the magnetic records, which had run uninterruptedly then at Colaba for about sixty years, but as comparative observations could be taken at both the stations for a period of two years before the electric tram lines were completed and the service had commenced its operations, the 'discontinuity' could be calculated and allowed for. The comparative observations show that at Alibag, the horizontal component of magnetic force stands lower by 0·00510 C. G. S. unit of force, easterly declination stands higher by 53′·5 and inclination stands higher by 1° 4′·7 than at Colaba, and these are the finally adopted differences between the two sites. The figures published in this volume, like those in the previous volumes since 1906, have not been corrected for these differences.

The Colaba Observatory is situated almost at the extreme south end of the narrow ridge of land extending about three miles to the south-west of the Fort of Bombay and separating the Harbour from the Back Bay. The level of the Observatory compound is about 32 feet above the mean level of the sea.

The astronomical co-ordinates* giving the position of the Colaba Observatory are :—

Latitude	18° 53′ 36·18″ N.
Longitude	72° 48′ 54·03″ E.

The Alibag Magnetic Observatory is situated on the main land about 18 miles south-south-east of Bombay, and its astronomical co-ordinates are—

Latitude	18° 38′ 17″ N.
Longitude	72° 52′ 21″ E.

For a general description of the buildings and instruments in both the Observatories, see "Magnetical, Meteorological and Seismographic Observations made at the Government Observatories, Bombay and Alibag, 1906 to 1910," and also the similar volume for 1916-20.

Unless otherwise stated, all times given in this volume refer to local mean time.

A very important change was introduced in Watson's Vertical Force Magnetograph at Alibag in August 1927. This instrument had a very low sensitiveness (from 1 cm=92γ to 1 cm.=100γ) ever since it was installed at Alibag in 1904 and furnished very poor records of the variation of the vertical force. This poor sensitiveness was obtained by taking the weight in the form of a screw-nut, which has been provided by the manufacturers for altering the position of the centre of gravity of the 'balance', to the highest point of the central vertical rod in which it works. The sensitiveness could not therefore be increased further under the arrangement provided by the manufacturers. The weight was therefore discarded, and a symmetrical brass nut, smoothly working in the screw-threads, was placed in the lowest position of the vertical rod. The weight of this nut was considerably more than that of the original nut, which was discarded, and consequently even in the lowest position it raised the centre of gravity of the 'balance' so much as to render the system completely unstable. The nut was therefore removed and its two plane faces carefully rubbed on sand paper to reduce its weight and placed back in the lowest position of the vertical screw rod. Even then the centre of gravity was raised too much and the system was unstable. The nut was therefore again removed and the surfaces scraped and placed back in the lowest position of the vertical rod, but the 'balance' was still unstable. The process was repeated several times until, when the nut was placed in the lowest position, the 'balance' became just stable. To test the stability, repeated deflections by deflector magnets were made and on each occasion the balance regained precisely its old position after the deflectors were removed. The magnet system was then raised and lowered several times and every time it regained back its old position. The system was therefore considered to be perfectly stable. A determination of the scale coefficient gave the value 1 cm.=12γ. In other words, the system as a result of this adjustment was found to have increased in its sensitiveness eightfold. The new nut did not in any way affect the temperature compensation arrangement provided in the 'balance'.

A few examples of quiet day records before and after the adjustment have been given in Plate VI and these will show the improvements attained in recording the variation as a result of increased sensitiveness. The quiet day records under the increased sensitiveness show the diurnal variations in a very conspicuous manner. All the quiet day records obtained after the adjustment have shown similar characteristics. Before the

*Magnetic, Meteorological and Seismographic observations made at the Government Observatories, Bombay and Alibag, 1923, p. 1.

adjustment, the V. F. 'storm' records were extremely poor as compared with the H. F. records. But after the adjustment the V. F. shows the oscillations produced by magnetic storms in as conspicuous a manner as the H. F. (scale value 1 cm.=45γ), as indeed is shown by the storm records reproduced in the Plates appended to this volume. It appears that the base line values have attained greater steadiness after this adjustment. Although this improvement was not conspicuous during the first few months, later data leave very little doubt in the matter.

Meteorological instruments at Colaba.

1. *Standard Barometer.*—The barometer is by Newman (No. 58) and has been in uninterrupted use since the establishment of the Observatory. It reads on an average 0·004″ below the Kew Standard and 0·012″ below the old Calcutta standard barometer. The height of the barometer is 37 feet above the mean sea-level. A subsidiary standard barometer, Newman No. 48, has also been maintained in the underground constant temperature room, and its reading exceeds that of the standard barometer by 0·001″.

2. *Barograph.*—The instrument is of the Kew pattern and is installed in the underground constant temperature room and the variation of pressure is recorded photographically. The barograph has been treated, as in the past, as an independent instrument in respect of the variation of pressure occurring in the course of a day, but the mean of the excesses of the eye observations of the standard barometer made on any day, on the previous day and the succeeding day over the corresponding barograph tabulations has been applied as a common correction to all the tabulated hourly readings of the day.

3. *Standard Dry bulb and Wet bulb Thermometers.*—On the 26th November 1917, the freezing points were tested and the zero of the dry bulb standard thermometer No. 401 was found to have changed from 32°·6 to 33°·0 F. and that of the wet bulb standard thermometer No. 402 from 32°·5 to 33°·0 F. These thermometers were again tested on the 3rd February 1926 and their corrections were found to be the same as those determined in 1917. Besides the above, there are eye reading dry bulb, wet bulb, maximum and minimum thermometers installed in a standard Stevenson Screen and a standard thatched shed. The heights of the bulbs of the thermometers above the ground in different sheds are given below:—

Thermograph Shed ; Dry bulb 10′ ; Wet bulb 10′.
Stevenson Screen ; „ „ 4′ 4½″ ; „ „ 4′ 4″ : Max. 4′ 11½″ ; Min. 4′ 4½″.
Thatched Shed ; „ „ 4′ 8″ ; „ „ 4′ 7½″ : „ 4′ 0½″ ; „ 3′ 8½″.

For the results of comparative observations of these thermometers see p. 2 of the volume for the year 1924.

4. *Kew Dry bulb and Wet bulb Thermograph.*—The bulbs of these thermograph thermometers are placed close to those of the standard dry and wet bulb thermometers in a large double louvre shed, and the variation of temperatures is recorded photographically. The tables of air temperature have been obtained from the tabulations of dry bulb and of humidity from dry and wet bulb thermograms. The mean differences between the readings of the standard dry and wet bulb thermometers described in the preceding para. and the corresponding readings of the thermograms for the year 1927 were both +0°·1 and were neglected.

5. *Robinson-Beckley's Anemograph.*—This anemograph is of the kind designed by Robinson, with improvements by Robert Beckley. It is erected on the Anemometer Tower with its cups, at a height of 58 feet above the ground, and 100 feet above the mean sea-level. The centres of each pair of opposite hemi-spherical cups are four feet apart, and the diameter of each of the cups is 9 inches. The diameter of the vanes of the direction recorder is 15 inches and the breadth of the fans 4 inches.

6. *Dines' Anemograph, 1897 (velocity).*—The head-vane has been placed on the Anemometer Tower at a distance of 6 feet from the Robinson-Beckley's cups and 6 inches above their level. The comparison of this instrument with a U-tube pressure gauge, showed on the results of a series of experiments, that the relation between W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure of wind, and V, the velocity of wind in miles per hour as indicated in the Dines' chart, was $W = \cdot00078\ V^2$ instead of $W = \cdot00073\ V^2$, which should have been the relation if the instrument had the correct specification of a standard instrument of this kind. The results showed that this Dines' instrument recorded only 96 per cent. of the true velocity.

7. *Dines' Anemograph, 1924 (velocity and direction).*—A Dines' anemograph by R. W. Munro and Co. was received in 1923 and installed on the Anemometer Tower in January 1924. With a view to get the best possible exposure, its modern type T-shaped head-vane was placed on the top of a telegraph post, 32·5 feet high, fixed on the Tower at a distance of 3 feet from the cups of the Robinson-Beckley's anemograph. The vane was therefore 27 feet above the level of Robinson-Beckley's cups and 127 feet above the mean sea-level. The diameter of the post near the Beckley's cups is 8 inches and it does not therefore exercise any appreciable influence on the records of Robinson-Beckley. This is due to the fact that in a current of air flowing past a fixed cylindrical obstacle,

e stream lines, although they get deformed near the obstacle, assume again very nearly the original configuration at a distance from the obstacle equal to its diameter, and at this distance the velocity of the air current, too, attains its original value. The results of a series of comparisons of this instrument with a U-tube pressure-gauge showed that W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure exerted by the wind, and V, the velocity of the wind in miles per hour as indicated in the charts, practically obey the standard law, namely, $W = \cdot 000731\ V^2$.

The height of the vane of this anemometer is 26 feet above that of the old Dines' anemometer. On account of this greater height, this instrument records a larger velocity of wind, and smaller gustiness; the types of records by the two instruments are however identical. The following table gives the results of the comparative observations during 1924-29 of the three wind instruments.

Ratio of Wind Velocities (1924-29).	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.	Means.			
													October to February	March to May.	June to September.	Year.
New Dines to Old Dines.	1·55	1·55	1·46	1·49	1·58	1·61	1·84	1·85	1·73	1·63	1·63	1·57	1·59	1·51	1·76	1·63
New Dines to Rob. Beckley.	1·45	1·46	1·38	1·37	1·45	1·50	1·74	1·73	1·62	1·51	1·56	1·45	1·49	1·40	1·65	1·52
Old Dines to Rob. Beckley.	0·95	0·94	0·95	0·94	0·97	0·95	0·95	0·96	0·95	0·94	0·96	0·94	0·95	0·95	0·95	0·95

The hourly values of wind velocity and wind direction tabulated in this volume represent the average of this Dines' records for periods of sixty minutes, from full hour to full hour of local mean time. The daily mean directions have been derived by converting the hourly velocities into N or S and E or W components and combining the mean components.

8. *Rain-gauge.*—Newman's rain-gauge, which has been in use since 1845, exposes for the collection of rain drops at a height of four feet above the ground a circular surface of an average diameter of 12·035 inches, forming the top of the funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches. Each division of the graduated rod resting on the float represents ·05 inch of rain and the readings of this scale are easily estimated to one-fifth of a division.

9. *Photographic Rain-gauge.*—This instrument takes a continuous record of rainfall by photographing the head of a mercury column balancing the rainfall collected in a glass vessel, with an arrangement for syphon discharge when full. A full description of this instrument will be found in the introduction to the " Bombay Magnetical and Meteorological Observations, 1871 to 1878 ", page xlvi. For methods of reduction of pluviograph records, reference is made to the introduction to the " Bombay Magnetical, Meteorological and Seismographic Observations, 1916-20 ". The height of the receiving funnel of this instrument is 28 feet above the ground. On account of its greater height, the pluviograph gives a lower value for rainfall than that by Newman.

Magnetic Instruments at Alibag.

Variation Instruments.

The horizontal force, vertical force and declination magnetographs in use at Alibag are all by Watson and are mounted on isolated pillars in the magnetograph room. They were maintained in continuous action throughout the year. As already explained on pages 1-2, the sensitiveness of the vertical force magnetograph was increased eightfold on the 7th August, by introducing certain alterations in the mechanism for adjusting the position of the centre of gravity of the ' balance '. The maximum and minimum temperatures in the magnetograph room during 1927 are shown below in degrees Fahrenheit.

1927.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Maximum .	82·9	81·8	84·0	86·8	89·5	90·0	87·5	85·0	86·7	87·3	87·4	83·8	90·0
Minimum .	81·0	81·0	81·4	84·0	86·7	87·5	84·3	84·0	84·1	86·1	83·6	83·0	81·0

Two Eschenhagen variometers, one for horizontal force and the other for vertical force, are also installed in the magnetograph room and are read five times every day. A set of Kew Horizontal Force Magnetometer, Kew Vertical Force Magnetometer and

Declination Magnetometer is installed in the ground-floor room of the magnetometer building and these are also read five times every day. The eye observations are regularly plotted and are used mainly for a comparative study of the performance of the different instruments. The magnetograms have been used in deducing the tabulated results. The hourly tabulations represent the mean values during one hour, centered at the full hours of Greenwich mean time.

The scale coefficients of the force magnetographs were obtained every fortnight from deflection observations performed on the instruments with deflectors, at a distance of 100 cms. in the case of H and at a distance of 75 cms. in the case of V magnetographs according to the old practice up to the middle of August 1927. Thereafter deflection observations at two distances were made once a week up to the end of the year 1927. The deflection distances selected for H. F. magnetograph were 100 cms. and 120 cms. and those for V. F. magnetograph were 124·05 cms. and 148·6 cms. The usual distribution coefficient $(1+\frac{P}{r^2})$ was introduced in the formula for the computation of scale coefficients. It was found that the mean values of the factor in the case of H. F. magnetograph were for both the distances equal to unity and in the case of V. F. magnetograph were 1·21 and 1·15 for the nearer and the longer distances respectively. The value adopted for any month is the mean of the mean observed value for that month and those for the preceding and succeeding months.

The following table gives the scale coefficients for 1 cm. ordinate on the photographic paper of the force magnetographs in γ, where as usual, γ = 0·00001 C. G. S. unit of force.

Instrument.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
H. F. Magnetograph	45·5	45·3	45·0	44·6	44·4	44·5	44·7	44·8	44·8	44·8	44·8	44·8
V. F. Magnetograph	96·5	96·3	96·3	96·5	96·8	96·8	96·6	96·4 / 12·0*	12·2	12·5	12·2	11·6

The scale coefficient of the declination magnetograph for 1 cm. of ordinate is 10′·28·

The temperature co-efficient for the horizontal force magnetograph has been determined by heating experiments and its adopted value is ·000036 in C. G. S. unit for 1° F. The temperature co-efficient of the vertical force magnetograph was found by similar experiments to be negligible as no appreciable change in force, after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effect. The above conclusions have been checked by an analysis of the observed monthly values of base lines by means of the formula $B_t = B_m + a\,(t-m)$; where B_t is the monthly mean value of the base line, uncorrected for temperature but corrected for the slow secular change caused by the loss of magnetic moment and other causes, t the mean temperature during the month, B_m the annual mean of the observed values of the base line, m the annual mean temperature of the magnetograph room, and a the temperature co-efficient. Several years' data have been analysed in this manner. The mean value of a for H. F. based on the data for the years 1924-27 is ·000053 γ. The adopted value is thus seen to be smaller by about 30 per cent. than that obtained by this method, but no correction has been introduced in the reduction on account of this difference. For V.F. the value of a appears to be negligible.

Absolute Instruments.

Two magnetometers have been under regular observation during the period for obtaining the absolute values of horizontal force and declination. Magnetometer No. 7 by T. Cooke and Sons, which is the standard instrument at Alibag, is of the ordinary type of Kew pattern instruments but is modified and improved in several important details. The other instrument is Magnetometer No. 3 by the Cambridge Scientific Instrument Company and is of the usual Kew pattern. Instrument No. 7 is observed on the second floor of the magnetometer building, while instrument No. 3 is observed on the first floor, each instrument being permanently allowed to stand on its pillar in the respective floors. A third magnetometer No. 137 by A. Dover Charlton with magnets No. 3A and 3C received from Messrs. Casella and Co. in 1925 was brought into use from September 1925 for observations of horizontal force and declination mainly for comparative purposes. The observations were taken on the ground floor until February 1927 and afterwards on the top floor.

The value of the correction, $\text{Log.}_{10}\,(1+\frac{P}{r^2}+\frac{Q}{r^4})^{-1}$ used in the reduction of the horizontal force observations was obtained for a given month by taking the mean for seven months including the given month as fourth of the seven. The values of this correction for the different months of the year for the standard instrument at the deflection distance 22·5 cms. were as follows:—

January	.. 9·99321	May	.. 9·99326	September	.. 9·99329
February	.. 9·99322	June	.. 9·99327	October	.. 9·99326
March	.. 9·99324	July	.. 9·99327	November	.. 9·99329
April	.. 9·99324	August	.. 9·99324	December	.. 9·99332

* Adjustment of V. F. magnetograph on the 7th August, See pages 1.2,

Earth Inductor No. 41 by Schulze of Potsdam with galvanometer No. 200 by Plath are installed on specially constructed pillars in the second floor, while Inductor No. 108 by Otto Toepfer and its galvanometer are installed in the first floor of the magnetometer building. Both these instruments were in regular use.

System of observation at Colaba.

Eye observations of meteorological elements were taken every day, including Sundays, at the hours 8, 10, and 16; the day commencing at midnight, Bombay (Colaba), being reckoned from 0h to 24h. The time of observation of each element is fixed and the observations were registered with strict punctuality as follows :—

From 5 minutes to the hour to 2 minutes after the hour.	Extent and description of clouds, state of weather, occasional phenomena and direction of the wind.
At 2 minutes after the hour	Thermograph standard thermometer, dry-bulb.
	Thermograph standard thermometer, wet-bulb.
At 3 minutes after the hour	Newman's rain-gauge (in wet season).
From 7 to 9 minutes after the hour.	Newman's standard barometer No. 58 and attached thermometer.
	Newman's standard barometer No. 48 and attached thermometer (read at 10 hrs. and 16 hrs. only).
At 10 minutes after the hour	Thermometer attached to barograph (read at 10 hrs. and 16 hrs. only).

Observations of the extent and description of clouds, state of weather, occasional phenomena and rainfall (in wet season) were also taken at 6, 14 and 22 hrs. Observations with nephoscope were taken at 8½, 12½ and 16½ hrs. every day. The maximum and minimum thermometers in the thermometer-sheds were read twice daily at 8 and 16 hrs.

Observations of the nocturnal radiation thermometer have been taken in the Observatory for many years. It was considered that no additional information would be obtained by continuing these observations. They were therefore discontinued on the 9th July, 1927.

During the mansoon months, Newman's rain-gauge was read daily at midnight in addition to the usual observations and the discharges of the syphon of the self-registering pluviograph were also read as often as required.

A Campbell-Stockes Sunshine recorder was installed on the balloon observation tower and was brought into regular use from August 1925.

The electric clock controlling the drop of the time ball and the Harbour clock, was duly regulated thrice every day by comparison with the standard sidereal clocks, two Riefflers and one Kullberg. Government chronometers, belonging to the Royal Indian Marine and the Royal Navy, were wound daily or twice a week as required and comparisons with the standard clock were made with sufficient frequency to render the instruments always ready for issue at call with well determined rates.

Transit observations of stars for the determination of time for obtaining the errors and the rates of the sidereal clocks were made every Monday, Wednesday and Friday in the dry months of the year. During the monsoon months, no opportunity was lost for observing either the sun or the stars whenever visible. The adjustment of the transit instrument in azimuth was tested frequently by reference to the fixed meridian collimator marks, and level errors were tested once every month. Errors of collimation, level and azimuth were determined once every month except during the monsoon months.

A second transit instrument by T. Cooke and Son, which was purchased from the Mathematical Instrument Office, Calcutta, was installed on a separate stone pillar, isolated from the floor, in the transit room in 1925. Simultaneous observations of stars with this instrument as well as the old transit instrument commenced in 1926 with a view to form an estimate of the instrumental errors after correcting for all known errors.

The inter-valve transformers in the 7-valve Marconi wireless receiving apparatus having become defective, a new 5-valve apparatus of the Marconi RP2B type was installed in April 1926. Observations of time signals broadcasted from Nauen, Bordeaux and Calcutta, were taken during the year and the observed time was compared with the time determined by star observations.

Observations of magnetic declination were made once every month at Colaba about the 15th of each month. The mean of the differences between the observed absolute values of declination at Colaba and Alibag, from 1906 to 1928, is 52′·9, and this agrees fairly well with the value obtained by the comparative observations taken at the two stations in the years, 1904 and 1905.

System of observation at Alibag.

Eye observations of the instruments mentioned below were taken daily, Sundays included, shortly before 6, 10, 14, 16 and 22 hrs. at the instants specified against them.

These instants have been chosen so that they may approach as nearly as possible to the full hour of Greenwich mean time, which corresponds to 51 mins. of local time.

At 19 minutes to the hour .	Kew Horizontal Force Magnetometer and attached thermometer.
At 17 minutes to the hour .	Kew Vertical Force Magnetometer and attached thermometer.
„ 15 „ „ „ .	Declination Magnetometer and thermometer in the Magnetometer room.
„ 11 „ „ „ .	Eschenhagen's Vertical Force Variometer and attached thermometer.
„ 10 „ „ „ .	Watson's Vertical Force Magnetograph and attached thermometer.
„ 9 „ „ „ .	Watson's Declination Magnetograph.
„ 8 „ „ „ .	Watson's Horizontal Force Magnetograph and attached thermometer.
„ 7 „ „ „ .	Eschenhagen's Horizontal Force Variometer and attached thermometer.
„ 6 „ „ „ „ .	Thermograph in the Magnetograph room and standard thermometer (read twice daily at 6 and 16 hrs. only).

Deflection experiments, with vibration magnet of magnetometer No. 137, the moment of which is determined every fortnight as deflector at a distance of 100 cms. on the horizontal force magnetograph and at a distance of 75 cms. on the vertical force magnetograph were made once every fortnight up to the middle of August 1927. Thereafter deflection observations were made once a week at two distances, viz. 100 cms. and 120 cms. in the case of the horizontal force magnetograph, and 124·05 cms. and 148·6 cms. in the case of the vertical force magnetograph. Similar deflection experiments with vibration magnet of magnetometer No. 3 as deflector were made once a month for the purpose of check work.

Deflection experiments, with vibration magnet No. 137 as deflector at a distance of 100 cms. on the Eschenhagen's horizontal force variometer, and at a distance of 75 cms. on the Eschenhagen's vertical force variometer, were also made once a fortnight.

Observations of absolute horizontal force were made with the Observatory standard instrument No. 7 on Wednesdays. Observations of absolute horizontal force on alternate Mondays were also taken with

(1) the auxiliary magnetometer No. 3 and magnets No. 137.

(2) and the auxiliary magnetometer No. 137 and the new magnets No. 3-A and 3-C received from Messrs. Casella and Co. respectively. With the standard magnetometer No. 7 and also with one of the auxiliary instruments mentioned above, taken alternately, observations of declination were made every Thursday one after the other. Observations of inclination were made with the Schulze's Inductor, which is the Observatory standard instrument, and another inductor by Otto Toepfer every day in the year with the exception of Sundays and holidays. Each of the two inductor instruments was ordinarily observed on alternate days, but for check work both the instruments were observed simultaneously on Fridays.

Transit observations of stars for the determination of time were made generally on Tuesdays and Fridays in the dry months; during the monsoon months no opportunity was lost of observing the sun or stars whenever visible. The adjustment of the transit instrument was frequently tested by reference to the fixed collimator mark and by level observations; the errors of collimation, level and azimuth were determined once every month except during the monsoon months.

For the comparative study of temperatures at Colaba and Alibag, the observations of the thermometers in the standard Stevenson Screen at Alibag were continued during the year at all the observational hours, 6, 10, 14, 16 and 22.

General Review.

1. *Weather.*—The southwest monsoon rains commenced at Bombay on the 4th June and ended on the 11th October. The total rainfall recorded during the year amounted to 74·38″ and was 3·84″ above the normal of 72 years. The mean temperature of the year was 79°·0 which was 0°·3 below the normal. The greatest maximum temperature recorded was 93°·6 on the 30th October and the lowest minimum was 62°·4 on the 24th February. The mean temperature of all the months in the year was within 3° of the normal of the season. The mean velocity of wind during the year was 10·3 miles per hour. The greatest daily mean velocity was 26·0 miles per hour on the 25th July and the lowest was 3·7 miles per hour on the 29th October. The greatest mean hourly velocity was 37 miles on the 17th June, while the velocity of a single gust of wind as recorded by the New Dines' anemometer reached 57 miles per hour on the 17th June.

2. *Magnetic conditions.*—The mean and the extreme values of the magnetic elements at Alibag during 1927 are given below along with the corresponding values for the previous six years :—

Year.	H						D						V						I
	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.
		Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.		
	γ	γ		γ		γ	′	′		′		′	γ	γ		γ		γ	° ′
1921	36935	37069	13th May.	36381	15th May.	688	15·9 E.	41·9 E.	15th May.	9·5 E.	7th July.	32·4	17227	17320	15th May.	17144	20th Jan.	176	25 0·3
1922	36946	37037	10th Mar.	36777	14th Sept.	260	12·6 E.	18·0 E.	16th Feb.	6·6 E.	31st Aug.	11·4	17293	17351	12th Aug.	17222	5th Apr.	129	25 5·0
1923	36985	37071	27th Nov.	36854	24th Mar.	217	8·9 E.	13·6 E.	26th Jan.	3·6 E.	24th Sept.	10·0	17372	17432	3rd July.	17270	25th Jan.	162	25 9·6
1924	37029	37142	16th Oct.	36854	10th June	288	5·6 E.	10·5 E.	29th Jan.	0·4 E.	15th Sept.	10·1	17452	17514	26th Dec.	17379	19th Jan.	135	25 14·1
1925	37065	37170	9th Mar.	36899	28th Dec.	271	3·4 E.	8·2 E.	24th May	2·0 W.	4th Sept.	10·2	17527	17589	25th Dec.	17421	21st Jan.	168	25 18·5
1926	37079	37227	26th Jan.	36755	15th Apr.	472	0·8 E.	9·9 E.	15th Apr.	4·9 W.	24th Aug.	14·8	17590	17654	15th Oct.	17504	4th Jan.	150	25 22·7
1927	37119	37350	22nd Oct.	36802	12th Oct.	548	1·9 W.	6·0 E.	22nd July.	8·6 W.	21st Aug.	14·6	17650	17710	24th Sept.	17565	14th Sept.	145	25 25·9

The value of H has been steadily increasing since 1916. The increase from 1926 to 1927 is 40γ and is higher than the average rate of increase, namely 28γ, during the last 10 years. Declination diminished during the year at a rate which is very nearly the mean of the last ten years. Both the vertical force and the inclination showed, as usual, a gradual increase.

The following table gives the character figures assigned to each day according to the international scheme. In 1924, De Bilt issued a circular letter explaining a certain definite procedure to be followed in assigning a character figure to each day. The figures herein given have consequently been deduced from a study of the departure of each day's range from the normal range for the day supplemented by an eye examination of the magnetograms.

Month.	"0" days.	"1" days.	"2" days.	Mean character figure.
1927.				
January . .	2, 3, 8, 9, 10, 13, 15, 16, 20, 21, 22, 23, 27, 28, 30, 31.	1, 5, 6, 11, 12, 14, 17, 18, 19, 25, 26, 29.	4, 7, 24.	0·58
February .	2, 4, 5, 6, 7, 11, 14, 15, 19, 20, 21, 22, 23, 27.	1, 3, 8, 9, 10, 12, 13, 16, 17, 18, 25, 26, 28.	24.	·54
March . .	2, 3, 4, 5, 6, 7, 8, 12, 21, 22, 23, 24, 25 .	1, 9, 11, 13, 14, 15, 18, 19, 28, 29, 30, 31.	10, 16, 17, 20, 26, 27.	·77
April . .	1, 2, 3, 6, 16, 17, 19, 20, 21, 22, 26, 27, 28, 29, 30.	4, 5, 10, 12, 13, 15, 18, 23, 25 .	7, 8, 9, 11, 14, 24.	·70
May . . .	1, 2, 10, 11, 12, 13, 14, 17, 18, 21, 22, 24, 25, 26, 29, 30, 31.	4, 6, 8, 9, 15, 16, 23 . . .	3, 5, 7, 19, 20, 27, 28.	·68
June . .	4, 6, 7, 8, 9, 13, 16, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29.	1, 2, 3, 5, 10, 11, 12, 14, 15, 17, 27, 30.	26.	·47
July . .	2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 25, 26, 28, 29, 30.	1, 5, 6, 8, 17, 24, 27, 31. . .	7, 21, 22, 23.	·52
August . .	1, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 17, 18, 23, 24, 25, 26.	2, 5, 10, 15, 16, 19, 22, 27, 28, 31,	20, 21, 29, 30.	·58
September .	16, 17, 18, 19, 21, 22, 23. . . .	1, 2, 3, 5, 11, 12, 13, 14, 15, 20, 24, 25, 26, 27, 28, 29, 30.	4, 6, 7, 8, 9, 10.	·97
October . .	1, 4, 14, 15, 16, 17, 18, 19, 20, 21, 27, 28, 31.	2, 3, 5, 6, 11, 24, 25, 26, 29, 30. .	7, 8, 9, 10, 12, 13, 22, 23.	·84
November .	1, 2, 3, 4, 5, 6, 7, 11, 12, 13, 14, 15, 17, 22, 23, 24, 25, 27, 28.	8, 9, 10, 16, 19, 20, 21, 26, 29 30 .	18	·40
December .	3, 4, 11, 12, 20, 21, 22, 24, 25, 26, 27, 29, 30.	1, 2, 5, 6, 7, 8, 9, 10, 15, 16, 19, 23, 31.	13, 14, 17, 18, 28.	·74

The annual mean character figure, as assigned by the Observatory, for the year 1927 is ·65, while that for the year 1926 is ·70. The corresponding De Bilt figures are ·63 and ·65 respectively. The magnetic activity in the year 1927 thus differs very little from that in the year 1926. September was the most active and November the most inactive month in the year.

Absolute observations and Base Line Values.

Declination.

Absolute observations of declination were made once a week with two magnetometers No. 7 and No. 3 or No. 137, one after the other.

Base-line values are derived by converting the ordinates corresponding to absolute observations with instrument No. 7 into angles and subtracting the converted ordinates from the observed absolute declination. The values so obtained of the base-lines of the declination magnetograph denote westerly declination.

The adopted values are derived by taking overlapping means of 5 successive observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Declination base-line values, 1927.

(0° *plus* tabular minutes.)

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	′	′		′	′		′	′
January 6	72·5 W	72·6 W	May 5	72·3 W	71·8 W	September 1	69·8 W	69·7 W
„ 13	73·1	72·7	„ 12	71·4	71·5	„ 8	69·7	69·9
„ 20	72·6	72·7	„ 19	70·7	70·0	„ 15	70·2	70·2
„ 27	72·8	72·7	„ 26	70·8	70·6	„ 22	70·5	70·4
February 3	72·5	72·7	June 2	70·0	70·3	„ 29	70·6	70·7
„ 10	72·6	72·7	„ 9	69·9	70·2	October 7	71·2	70·8
„ 17	72·7	72·6	„ 16	70·1	70·0	„ 13	71·0	70·9
„ 24	72·9	72·7	„ 23	70·0	70·1	„ 20	70·7	70·9
March 3	72·3	72·6	„ 30	70·2	70·2	„ 27	70·9	70·9
„ 10	72·5	72·5	July 7	70·5	70·1	November 3	70·7	71·0
„ 17	72·5	72·4	„ 14	70·2	69·8	„ 10	71·2	71·1
„ 24	72·1	72·3	„ 21	69·2	69·6	„ 17	71·3	71·2
„ 31	72·5	72·3	„ 28	69·0	69·4	„ 24	71·3	71·3
April 7	72·3	72·3	August 4	69·2	69·2	December 1	71·4	71·4
„ 14	72·3	72·3	„ 13	69·4	69·3	„ 8	71·5	71·5
„ 21	72·1	72·3	„ 18	69·4	69·4	„ 15	71·5	71·5
„ 28	72·4	72·1	„ 25	69·4	69·5	„ 22	71·8	71·6
						„ 29	71·5	71·7

Horizontal Force.

Absolute observations of horizontal force were made twice a week, on Mondays with instruments No. 3 and No. 137 alternately and on Wednesdays with instrument No. 7. A day's observations comprise a double set of vibration and deflection experiments at three distances, which for No. 7 are 22·5 cms., 30 cms. and 40 cms. In calculating the base-line values the mean of the observed values at all the three distances has been adopted.

Base-line values are derived by converting the mean ordinates corresponding to absolute observations with instrument No. 7 in terms of γ and subtracting the converted ordinates from the mean observed absolute horizontal force. They are further reduced to a uniform temperature of 85° F. to make the series comparable from month to month and year to year.

The adopted values are derived by taking overlapping means of 5 successive double sets of observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

The horizontal force magnetograph was adjusted on the 6th March. The curve showing the variations of the force had come very near the edge of the photographic paper and had to be brought nearer the base-line and this was effected by turning the torsion head through a small angle. The change in the value of the base-line due to the adjustment was 124 γ .

Horizontal force base-line values at 85° F., 1927.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 5	36,733	36,730	May 4	36,862	36,869	September 7	36,861	36,864
„ 12	731	731	„ 11	867	870	„ 14	866	864
„ 19	731	732	„ 18	871	869	„ 21	860	863
„ 26	733	732	„ 25	874	873	„ 28	865	864
February 2	732	733	June 1	872	875	October 5	865	865
„ 9	731	732	„ 8	877	875	„ 12	864	867
„ 16	735	732	„ 15	878	875	„ 19	870	868
„ 23	728	733	„ 22	875	875	„ 27	871	869
March 1	735	733*	„ 30	873	873	November 2	869	867
„ 9	857	857	July 6	869	871	„ 9	873	865
„ 16	861	859	„ 13	867	869	„ 18	851	865
„ 23	866	861	„ 20	870	868	„ 23	862	866
„ 30	857	864	„ 27	868	868	„ 30	868	865
April 6	864	866	August 3	865	867	December 7	877	866
„ 13	872	867	„ 12	869	867	„ 14	865	867
„ 20	869	868	„ 17	865	867	„ 21	859	865
„ 27	873	869	„ 24	867	866	„ 28	865	862
			„ 30	867	865			

* Adjustment of H. F. magnetograph.

Vertical Force.

Dip observations with inductors were made every day in the year, with the exception of Sundays and holidays, each of the two inductor instruments being observed on alternate days.

Base-line values are derived by expressing the mean ordinates of V. F. magnetograms corresponding to the inclination observations in terms of γ and subtracting the converted ordinates from the absolute vertical force obtained by multiplying the value of H. F. at the time by the tangent of inclination given by Inductor observations. Values derived from Inductor No. 108 are reduced to those derived from Inductor No. 41 (which is the Observatory standard) by applying the mean correction for the month deduced from the comparative observations taken once a week.

The adopted values are derived by taking overlapping means of 7 successive observations and reducing them to the proper epoch, values for those days not given by this operation being obtained by interpolation.

The vertical force magnetograph was adjusted between August 7 and 13 and on October 11, 14 and December 14. As already remarked the sensitiveness of the instrument increased eight times in consequence of the change introduced on August 7, in the mechanism for altering the sensitiveness.

Vertical force base-line values, 1927.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	ϒ	ϒ		ϒ	ϒ		ϒ	ϒ
January 5 .	16,923	16,914	May 4 .	16,914	16,904	September 7 .	17,578	17,575
„ 12 .	931	924	„ 11 .	893	886	„ 14 .	607	575
„ 19 .	934	920	„ 18 .	915	901	„ 21 .	596	577
„ 26 .	931	927	„ 25 .	900	900	„ 28 .	579	560
February 2 .	942	936	June 1 .	886	895	October 5 .	553	538*
„ 9 .	931	933	„ 8 .	889	894	„ 12 .	590	552*
„ 16 .	943	936	„ 15 .	917	899	„ 19 .	668	655
„ 23 .	928	927	„ 22 .	927	918	„ 27 .	641	643
March 1 .	930	923	„ 30 .	938	933	November 2 .	599	625
„ 9 .	950	937	July 6 .	956	949	„ 9 .	634	639
„ 16 .	947	942	„ 13 .	971	959	„ 18 .	602	606
„ 23 .	937	932	„ 20 .	963	961	„ 23 .	648	627
„ 30 .	933	938	„ 27 .	977	969	„ 30 .	667	659
April 6 .	952	945	August 3 .	972	969*	December 7 .	687	682
„ 13 .	938	924	„ 17 .	17,599	17,600	„ 14 .	717	693*
„ 20 .	804	915	„ 24 .	592	599	„ 21 .	604	606
„ 27 .	928	912	„ 30 .	648	612	„ 28 .	627	600

* Adjustments of V. F. magnetograph.

Seismographs.

The Milne-Shaw Seismograph (N-S component), which was kept in continuous action in the underground constant temperature room, gave very satisfactory records of earthquakes and microseisms during the year. The earthquakes recorded by this instrument will be found tabulated towards the end of the volume. The locally constructed seismograph (N-S and E-W components) was kept in continuous operation during the year as an auxiliary instrument. The Omori-Ewing Seismograph (E-W component) was maintained in good condition, but was not kept in continuous action throughout the year.

Magnetic Storms.

In plates I, II, III, IV and V are reproduced disturbed magnetic records for days recommended for publication by the International Commission of Terrestrial Magnetism. The base-line values and scale coefficients are shown with each curve. The hourly breaks last for 2 to 3 minutes and the time shown against a break is the time for the middle of the break expressed in Greenwich mean time. Increasing ordinates for H. F. and V. F. curves mean increase in force, and for the declination curves decrease of westerly declination.

S. K. BANERJI,
Meteorologist, Bombay.

Colaba Observatory, Bombay,
The 25th August, 1930.

Meteorological Tables.

(Colaba Observatory.)

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·923	29·907	29·897	29·884	29·881	29·891	29·891	29·926	29·949	29·947	29·937	29·918	29·893	29·866
2	·894	·875	·866	·848	·862	·870	·903	·918	·942	·941	·940	·918	·899	·867
3	·900	·893	·884	·869	·866	·872	·895	·910	·945	·948	·945	·926	·906	·880
4	·907	·892	·881	·872	·879	·890	·919	·936	·959	·959	·955	·936	·919	·896
5	·903	·884	·874	·867	·874	·881	·905	·918	·946	·956	·959	·942	·916	·889
6	·903	·892	·883	·873	·873	·880	·901	·919	·944	·944	·941	·918	·893	·865
7	·906	·898	·892	·884	·898	·907	·928	·948	·976	·978	·981	·956	·922	·891
8	·941	·930	·926	·915	·919	·927	·959	·975	·999	30·004	30·000	·977	·959	·933
9	·925	·911	·899	·883	·884	·898	·925	·943	·967	29·967	29·956	·923	·891	·861
10	·878	·867	·864	·856	·861	·864	·888	·903	·928	·929	·919	·890	·865	·838
11	·874	·860	·853	·841	·839	·847	·870	·896	·929	·936	·938	·913	·887	·856
12	·883	·867	·859	·848	·853	·862	·885	·908	·931	·938	·939	·915	·897	·873
13	·871	·853	·842	·827	·831	·842	·875	·900	·929	·932	·934	·909	·877	·849
14	·873	·866	·858	·853	·853	·862	·888	·911	·946	·949	·950	·931	·903	·871
15	·925	·912	·902	·896	·898	·906	·922	·946	·983	·994	·995	·969	·944	·917
16	·940	·932	·929	·925	·927	·935	·948	·969	·993	30·000	·997	·963	·934	·907
17	·922	·907	·896	·886	·882	·885	·912	·932	·964	29·969	·969	·942	·915	·879
18	·884	·876	·876	·870	·877	·883	·904	·923	·949	·951	·947	·926	·900	·871
19	·917	·905	·901	·897	·907	·910	·926	·932	·949	·959	·969	·949	·927	·899
20	·916	·902	·899	·891	·898	·907	·926	·946	·972	·980	·977	·950	·919	·886
21	·913	·894	·883	·874	·873	·876	·902	·923	·955	·958	·958	·929	·897	·858
22	·904	·889	·879	·865	·867	·876	·903	·918	·950	·959	·955	·922	·891	·860
23	·946	·934	·928	·917	·926	·933	·946	·962	·990	·994	·984	·958	·937	·904
24	·942	·931	·922	·917	·921	923	·938	·956	·983	·990	·988	·965	·939	·904
25	·927	·914	·908	·895	·902	·911	·939	·963	·994	30·002	·996	·980	·965	·940
26	·980	·963	·946	·925	·929	·938	·961	·979	30·001	30·009	30·015	·990	·954	·922
27	·950	·936	·928	·913	·920	·926	·952	·967	29·986	29·997	29·995	·967	·936	·898
28	·916	·901	·889	·881	·887	·896	·921	·938	·965	·967	·971	·946	·921	·890
29	·921	·907	904	·893	·898	·901	·920	·933	·963	·971	·972	·952	·928	·899
30	·954	·936	·926	·913	·917	·933	·960	·981	30·013	30·024	**30·025**	30·006	·983	·944
31	·951	·932	·921	·909	·918	·929	·953	·965	29·991	·008	·011	29·987	·964	·938
Mean.	29·916	29·902	29·894	29·883	29·888	29·896	29·918	29·937	29·964	**29·970**	29·968	29·944	29·919	29·889
Variation.	+·004	—·010	—·018	—·029	—·024	—·016	+·006	+·025	+·052	**+·058**	+·056	+·032	+·007	—·023

FEBRUARY.

1	29·958	29·948	29·940	29·935	29·936	29·951	29·989	30·014	30·041	30·053	30·048	30·014	29·993	29·960
2	·984	·976	·969	·966	·972	·985	30·012	·024	·047	**·054**	·049	·020	·993	·971
3	·988	·973	·965	·955	·955	·966	29·980	29·993	·012	·016	·021	29·998	·977	·958
4	·941	·935	·938	·938	·945	·959	·980	·994	·013	.015	·006	·971	·948	·924
5	·944	·933	·923	·910	·911	·925	·947	·956	29·983	29·990	29·984	·957	·930	·905
6	·911	·899	·885	·883	·901	·906	·930	·943	·962	·965	·964	·950	·934	·910
7	·940	·925	·914	·901	·910	·925	·954	·969	·982	·983	·976	·957	·935	·912
8	·922	·907	·900	·889	·897	·913	·941	·956	·974	·970	·963	·935	·917	·893
9	·925	·907	·907	·907	·919	·929	·951	·969	·997	30·000	30·001	·974	·950	·925
10	·936	·914	·908	·898	·900	·913	·945	·966	·995	·000	29·995	·964	·932	·902
11	·940	·928	·914	·902	·910	·921	·935	·949	·965	29·961	·963	·942	·920	·892
12	·914	·892	·878	·866	·876	·884	·904	·916	·938	·947	·948	·928	·906	·877
13	·917	·901	·897	·889	·894	·896	·923	·935	·957	·961	·962	·929	·906	·875
14	·877	·866	·862	·855	·859	·869	·888	·902	·925	·933	·932	·910	·889	·857
15	·898	·877	·864	·858	·864	·874	·895	·911	·930	·932	·934	·919	·902	·869
16	·895	·882	·876	·870	·881	·892	·922	·947	·975	·980	·980	·958	·941	·914
17	·936	·922	·917	·908	·913	·926	·952	·969	·995	30·001	30·002	·980	·964	·952
18	·969	·955	·950	·950	·961	·976	30·006	30·016	30·034	·038	·036	30·012	·988	·952
19	·926	·909	·894	·874	·869	·878	29·901	29·912	29·926	29·928	29·931	29·905	·883	·856
20	·852	·840	·837	·818	·822	·844	·870	·900	·929	·933	·933	·911	·887	·857
21	·923	·893	·878	·861	·869	·888	·912	·919	·940	·949	·950	·929	·920	·905
22	·957	·937	·928	·919	·923	·928	·951	·969	·989	·990	30·001	·985	·973	·947
23	·964	·950	·947	·942	·947	·962	·994	30·017	30·036	30·037	·035	30·012	·994	·969
24	·967	·949	·942	·929	·927	·936	·961	29·973	29·995	29·997	·001	29·980	·955	·917
25	·876	·853	·842	·830	·828	·834	·864	·873	·894	·894	29·896	·875	·864	·838
26	·850	·829	·814	·806	·810	·817	·834	·857	·891	·904	·914	·902	·883	·856
27	·866	·842	·832	·817	·818	·821	·844	·863	·890	·894	·894	·872	·861	·835
28	·803	·785	·776	·770	·771	·775	·800	·818	·843	·845	·849	·830	·819	·797
Mean .	29·921	29·905	29·896	29·887	29·892	29·903	29·928	29·944	29·966	**29·970**	29·970	29·947	29·927	29·901
Variation.	+·005	—·011	—·020	—·029	—·024	—·013	+·012	+·028	+·050	**+·054**	+·054	+·031	+·011	—·015

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·855	29·843	29·853	29·859	29·885	29·897	29·917	29·915	29·915	29·896	29·898	8 50	29·954	15 40	29·838	1
·851	·842	·856	·862	·885	·893	·915	·920	·921	·903	·891	9 0	·950	15 25	·839	2
·872	·853	·866	·877	·891	·901	·922	·922	·926	·917	·900	8 46	·952	16 14	·858	3
·882	·872	·877	·883	·901	·909	·928	·927	·926	·911	·909	8 31	·960	15 35	·872	4
·868	·848	·853	·855	·875	·885	·901	·900	·899	·895	·896	9 25	·961	16 25	·847	5
·844	·825	·825	·837	·864	·881	·899	·906	·914	·908	·889	10 58	·947	17 30	·823	6
·884	·861	·873	·886	·915	·932	·956	·958	·960	·942	·922	10 50	·983	15 46	·859	7
·915	·898	·907	·909	·929	·939	·952	·952	·946	·929	·943	9 42	30·004	15 40	·898	8
·845	·831	·834	·840	·858	·877	·896	·898	·899	·884	·896	9 25	29·970	15 50	·830	9
·829	·825	·837	·844	·861	·877	·898	·901	·895	·877	·875	9 35	·931	16 56	·825	10
·845	·832	·848	·855	·878	·896	·917	·916	·912	·895	·881	9 50	·939	15 40	·831	11
·852	·837	·849	·856	·875	·890	·901	·900	·897	·881	·883	9 36	·941	15 25	·837	12
·829	**·814**	·822	·837	·854	·876	·890	·883	·892	·878	**·869**	10 32	·936	15 34	**·812**	13
·863	·854	·861	·870	·895	·910	·929	·935	·942	·933	·896	10 0	·951	3 35	·851	14
·893	·877	·884	·893	·910	·925	·945	·947	·952	·947	·928	10 44	·996	15 5	·877	15
·891	·879	·887	·889	·906	·919	·937	·940	·938	·927	·934	10 0	30·001	15 35	·877	16
·854	·838	·843	·848	·872	·886	·894	·886	·891	·884	·898	9 35	29·972	15 25	·836	17
·850	·850	·865	·874	·896	·911	·934	·935	·936	·926	·901	9 45	·952	14 42	·849	18
·879	·865	·869	·878	·900	·909	·928	·931	·929	·918	·915	10 18	.969	15 27	·864	19
·870	·861	·860	·861	·876	·887	·906	·913	·917	·912	·910	9 27	·981	16 33	·860	20
·845	·837	·848	·858	·879	·898	·920	·916	·915	·911	·897	10 40	·959	15 40	·837	21
·850	·845	·868	·879	·910	·932	·958	·961	·961	·951	·906	9 25	·962	15 21	·844	22
·893	·884	·893	·899	·924	·945	·959	·961	·959	·949	·939	9 10	·995	15 15	·884	23
·887	·876	·883	·887	·910	·924	·948	·951	·953	·942	·933	9 15	·991	15 45	·875	24
·926	·924	·934	·947	·962	·977	·994	30·000	30·001	·989	·954	9 45	30·003	3 50	·895	25
·901	·891	·903	·911	·935	·950	·972	29·977	29·980	·961	·954	10 40	·016	15 20	·890	26
·877	·864	·876	·883	·902	·912	·929	·932	·937	·926	·930	9 40	29·997	15 40	·864	27
·874	·865	·868	·874	·887	·897	·912	·920	·927	·922	·910	10 42	·974	15 30	·865	28
·887	·884	·891	·896	·921	·934	·948	·951	·965	·957	·925	10 42	·973	15 25	·884	29
·924	·910	·918	·924	·939	·953	·962	·964	·969	·958	**·956**	9 14	**30·026**	15 8	·909	30
·926	·922	·930	·938	·955	·965	·976	·973	·974	·966	·954	10 40	·014	3 12	·908	31
29·873	**29·862**	29·870	29·878	29·898	29·912	29·930	29·932	29·934	29·922	29·912					Mean.
—·039	—·**050**	—·042	—·034	—·014	·000	+·018	+·020	+·022	+·010						Varia-tion.

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29·949	29·938	29·948	29·949	29·961	29·976	29·990	29.994	29·999	29·989	29·978	11 10	30·058	3 50	29·935	1
·952	·943	·953	·955	·966	·978	·988	·991	·997	·988	**·989**	9 20	**·059**	15 55	·942	2
·937	·924	·920	·923	·937	·929	·938	·936	·936	·934	·961	10 10	·026	16 16	·918	3
·906	·898	·902	·907	·922	·929	·941	·944	·946	·937	·947	9 46	·016	15 51	·897	4
·887	·884	·889	·889	·904	·915	·933	·936	·932	·918	·929	9 45	29·991	15 28	·884	5
·890	·881	·893	·896	·917	·936	·955	·956	·955	·942	·923	9 55	·965	15 40	·880	6
·887	·877	·889	·898	·917	·929	·946	·942	·943	·930	·931	9 25	·983	15 45	·875	7
·875	·868	·876	·886	·910	·927	·947	·951	·947	·932	·921	8 35	·974	15 15	·868	8
·901	·890	·888	·896	·922	·934	·948	·953	·952	·939	·937	10 55	30·004	16 53	·888	9
·886	·874	·874	·882	·890	·910	·937	·947	·952	·942	·928	9 28	·000	15 32	·873	10
·871	·855	·860	·867	·885	·905	·920	·927	·929	·917	·916	8 45	29·966	15 45	·854	11
·858	·842	·853	·862	·889	·906	·926	·928	·930	·916	·899	10 30	·949	15 6	·841	12
·850	·832	·838	·848	·861	·872	·885	·886	·885	·883	·895	10 50	·964	15 15	·832	3
·838	·834	·843	·851	·875	·895	·911	·913	·915	·903	·883	9 30	·936	15 0	·834	14
·847	·829	·838	·848	·867	·888	·909	·911	·913	·904	·887	10 20	·935	15 40	·828	15
·901	·888	·890	·892	·912	·931	·949	·951	·952	·941	·922	9 45	·981	3 18	·869	16
·937	·923	·933	·936	·953	·965	·975	·975	·979	·969	·953	10 28	30·064	3 40	·908	17
·930	·914	·913	·914	·925	·930	·944	·936	·941	·934	·964	9 29	·038	16 20	·912	18
·831	·821	·825	·827	·849	·855	·869	·868	·869	·856	·878	9 55	29·933	15 19	·820	19
·845	·841	·848	·859	·874	·891	·924	·939	·948	·938	·881	22 0	·949	4 20	·818	20
·893	·889	·899	·908	·928	·940	·961	·967	·969	·962	·919	22 46	·971	3 42	·860	21
·937	·927	·935	·937	·954	·960	·974	·974	·977	·965	·956	9 58	30·004	3 38	.918	22
·951	·934	·937	·937	·946	·951	·970	·980	·990	·974	·974	9 43	·039	15 10	·934	23
·893	·878	·881	·883	·888	·898	·907	·904	·905	·885	·931	10 0	·004	15 0	·877	24
·817	·804	·816	·818	·841	·856	·873	·875	·875	·859	·854	10 58	29·897	15 20	·802	25
·837	·821	·819	·821	·838	·853	·874	·881	·890	·877	·853	10 20	·914	3 32	·804	26
·798	·777	·776	·778	·795	·800	·815	·816	·824	·812	·831	9 23	·894	16 26	·774	27
·783	**·767**	·767	·774	·802	·821	·844	·847	·848	·832	**·807**	10 10	·849	16 0	**·765**	28
29·882	**29·870**	29·875	29·880	29·897	29·910	29·927	29·930	29·932	29·921	29·916					
—·034	—·**046**	—·041	—·036	—·019	—·006	+·011	+·014	+·016	+·005						

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·810	29·791	29·778	29·762	29·765	29·770	29·795	29·813	29·830	29·832	29·834	29·813	29·794	29·765
2	·796	·784	·779	·768	·773	·782	·812	·826	·852	·856	·856	·826	·802	·769
3	·825	·808	·800	·786	·787	·798	·824	·838	·862	·865	·868	·854	·833	·805
4	·817	·796	·792	·780	·791	·807	·835	·855	·881	·884	·884	·862	·839	·380
5	·816	·807	·800	·787	·788	·799	·831	·850	·871	·876	·876	·853	·831	·880
6	·812	·804	·803	·798	·801	·810	·831	·845	·868	·870	·863	·832	·810	·779
7	·781	·765	·755	·744	·748	·754	·785	·804	·824	·826	·832	·808	·791	·764
8	·760	·739	·729	·716	·715	·722	·740	·758	·780	·777	·776	·758	·744	·725
9	·812	·769	·761	·750	·745	·751	·773	·789	·811	·826	·833	·813	·792	·761
10	·809	·785	·777	·767	·777	·768	·796	·811	·833	·838	·838	·811	·797	·771
11	·799	·783	·783	·765	·773	·774	·797	·800	·817	·815	·817	·789	·768	·725
12	·760	·745	·750	·746	·764	·768	·797	·806	·833	·841	·850	·833	·818	·801
13	·794	·770	·756	·753	·765	·783	·818	·841	·871	·877	·882	·858	·831	·801
14	·831	·805	·799	·793	·798	·805	·825	·837	·858	·858	·855	·823	·795	·771
15	·822	·812	·816	·810	·815	·824	·855	·878	·909	·911	·920	·900	·870	·840
16	·869	·849	·836	·822	·814	·819	·842	·858	·876	·880	·882	·863	·836	·802
17	·839	·817	·808	·800	·810	·817	·841	·854	·882	·882	·884	·864	·844	·820
18	·855	·834	·822	·810	·812	·825	·852	·867	·888	·886	·879	·858	·836	·805
19	·820	·796	·784	·777	·786	·795	·817	·836	·857	·861	·859	·837	·812	·777
20	·804	·779	·766	·754	·760	·764	·783	·814	·854	·861	·872	·857	·841	·812
21	·858	·840	·826	·814	·817	·830	·856	·869	·889	·890	·887	·862	·838	·799
22	·874	·854	·842	·831	·837	·852	·876	·895	·920	**·923**	·919	·894	·868	·840
23	·873	·849	·841	·832	·839	·849	·870	·885	·901	·903	·908	·883	·862	·829
24	·848	·828	·819	·809	·821	·832	·859	·878	·904	·909	·909	·893	·873	·845
25	·858	·833	·821	·813	·818	·833	·861	·876	·895	·893	·892	·870	·846	·815
26	·836	·813	·807	·800	·805	·813	·840	·856	·873	·872	·872	·854	·836	·810
27	·830	·810	·800	·791	·798	·806	·833	·850	·873	·877	·878	·857	·835	·809
28	·817	·803	·799	·795	·809	·825	·857	·886	·912	·915	·913	·895	·874	·841
29	·851	·841	·839	·833	·839	·844	·864	·875	·899	·903	·901	·877	·849	·814
30	·834	·817	·808	·796	·798	·808	·836	·856	·877	·872	·870	·851	·827	·796
31	·810	·790	·763	·771	·774	·780	·808	·827	·848	·850	·849	·830	·813	·788
Mean	29·823	29·804	29·795	29·786	29·792	29·800	29·826	29·843	29·866	29·869	**29·870**	29·848	29·826	29·796
Variation	+·009	—·010	—·019	—·028	—·022	—·014	+·012	+·029	+·052	+·055	**+·056**	+·034	+·012	—·018

APRIL.

1	29·811	29·795	29·790	29·789	29·794	29·801	29·831	29·849	29·865	29·863	29·869	29·850	29·833	29·805
2	·833	·817	·805	·805	·815	·823	·852	·875	·895	·895	·897	·875	·857	·836
3	·818	·799	·792	·777	·789	·806	·836	·854	·869	·868	·869	·843	·827	·781
4	·759	·743	·737	·722	·731	·743	·763	·787	·812	·811	·815	·793	·771	·745
5	·802	·782	·775	·773	·791	·798	·821	·836	·855	·853	·864	·859	·840	·813
6	·812	**·798**	·790	·776	·783	·778	·794	·813	·843	·845	·846	·828	·808	·775
7	·774	·757	·753	·753	·779	·785	·806	·823	·849	·846	·843	·822	·803	·765
8	·798	·782	·780	·772	·790	·804	·822	·834	·858	·856	·853	·834	·814	·781
9	·799	·777	·771	·760	·772	·787	·810	·827	·845	·841	·835	·816	·800	·771
10	·808	·789	·777	·763	·773	·777	·800	·821	·847	·845	·844	·826	·803	·779
11	·798	·784	·774	·761	·770	·778	·808	·824	·844	·844	·838	·818	·802	·776
12	·788	·768	·758	·746	·762	·776	·798	·813	·834	·838	·844	·825	·812	·771
13	·792	·774	·764	·744	·747	·758	·784	·804	·830	·834	·843	·826	·806	·780
14	·789	·765	·747	·729	·745	·759	·783	·802	·827	·829	·828	·805	·785	·751
15	·786	·764	·757	·749	·763	·764	·794	·813	·834	·835	·835	·813	·799	·769
16	·785	·764	·750	·733	·744	·752	·775	·787	·802	·796	·795	·778	·764	·737
17	·732	·708	·696	·684	·695	·704	·724	·738	·765	·766	·771	·758	·742	·713
18	·754	·745	·739	·729	·745	·755	·789	·811	·833	·837	·841	·826	·817	·791
19	·786	·772	·770	·766	·784	·794	·820	·840	·858	·858	·858	·845	·832	·802
20	·801	·783	·782	·777	·800	·804	·827	·835	·859	·861	·865	·849	·836	·812
21	·836	·820	·817	·805	·822	·824	·847	·864	·896	·902	**·904**	·883	·866	·836
22	·804	·789	·783	·784	·801	·796	·817	·825	·846	·846	·841	·823	·803	·779
23	·788	·776	·770	·759	·772	·786	·809	·814	·825	·820	·822	·800	·780	·744
24	·763	·751	·753	·743	·761	·775	·804	·831	·853	·853	·861	·850	·834	·805
25	·818	·799	·807	·807	·833	·847	·875	·883	·903	·898	·889	·871	·855	·819
26	·831	·819	·821	·815	·839	·843	·864	·863	·878	·878	·869	·853	·838	·805
27	·824	·806	·788	·781	·810	·813	·844	·869	·888	·883	·887	·866	·855	·820
28	·813	·799	·788	·779	·792	·799	·821	·828	·841	·842	·838	·822	·797	·761
29	·764	·748	·753	·743	·750	·760	·783	·794	·818	·812	·818	·801	·784	·762
30	·734	·711	·701	·686	·693	·694	·716	·725	·741	·741	·743	·737	·730	·713
Mean.	29·793	29·776	29·770	29·760	29·775	29·783	29·807	29·823	**29·844**	29·843	29·844	29·827	29·810	29·780
Variation	+·003	—·014	—·020	—·030	—·015	—·007	+·017	+·033	**+·054**	+·053	+·054	+·037	+·020	—·010

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·750	29·740	29·749	29·752	29·771	29·786	29·804	29·805	29·811	29·797	29.788	10 22	29·836	15 50	29·740	1
·744	·729	·733	·735	·754	·778	·814	·822	·836	·830	·794	10 10	·860	15 7	·728	2
·783	·768	·771	·773	·785	·798	·826	·828	·839	·825	·815	10 15	·868	18 20	·764	3
·787	·767	·767	·769	·795	·813	·829	·828	·830	·822	·818	9 30	·885	16 36	·767	4
·781	·760	·761	·763	·777	·789	·813	·811	·817	·812	·811	9 45	·876	15 45	·759	5
·755	·731	·727	·727	·743	·754	·777	·792	·800	·787	·797	9 40	·872	17 20	·727	6
·744	·727	·735	·734	·737	·743	·769	·776	·784	·768	·771	10 7	·832	15 48	·726	7
·716	·710	·713	·716	·731	·752	·782	·794	·812	·804	**·749**	22 46	·814	15 5	·708	8
·737	·722	·735	·639	·765	·784	·816	·821	·829	·814	·781	10 16	·833	15 36	·721	9
·755	·729	·735	·735	·753	·767	·789	·797	·803	·800	·785	9 45	·839	15 32	·729	10
·699	**·677**	·688	·695	·713	·723	·754	·764	·771	·765	·761	10 25	·819	15 25	**·677**	11
·782	·760	·760	·764	·780	·795	·810	·812	·813	·801	·791	10 10	·852	2 0	·745	12
·774	·760	·764	·765	·783	·797	·818	·824	·838	**·835**	·807	10 0	·882	3 2	·752	13
·754	·737	·736	·741	·770	·799	·833	·836	·843	·835	·806	9 50	·858	16 25	·734	14
·818	·804	·805	·810	·836	·854	·878	·890	·891	·882	·852	10 10	·920	15 10	·803	15
·786	·778	·780	·782	·804	·821	·848	·854	·859	·846	·834	10 52	·883	15 55	·777	16
·808	·797	·804	·808	·820	·832	·855	·861	·873	·865	·837	10 6	·885	15 8	·797	17
·785	·767	·767	·768	·784	·800	·824	·831	·842	·830	·826	9 3	·889	16 18	·767	18
·762	·741	·741	·745	·761	·779	·803	·813	·822	·812	·800	10 5	·864	15 30	·740	19
·794	·778	·780	·791	·814	·828	·856	·864	·868	·858	·815	10 50	·874	3 32	·754	20
·785	·775	·779	·786	·810	·831	·858	·874	·884	·880	·839	9 52	·896	15 40	·775	21
·819	·804	·806	·811	·834	·848	·871	·885	·888	·878	**·861**	9 53	**·923**	15 32	·802	22
·806	·790	·789	·794	·809	·827	·854	·867	·868	·858	·849	10 8	·910	16 36	·788	23
·836	·823	·826	·827	·842	·853	·871	·885	·884	·868	·856	10 30	·911	3 45	·809	24
·787	·771	·775	·773	·782	·797	·819	·832	·849	·846	·831	9 27	·896	15 15	·770	25
·795	·787	·783	·792	·813	·829	·847	·848	·845	·836	·828	9 47	·875	16 10	·783	26
·784	·769	·775	·788	·799	·814	·834	·838	·841	·822	·821	9 20	·881	15 50	·769	27
·819	·805	·807	·810	·833	·851	·864	·861	·863	·850	·846	9 46	·916	3 42	·794	28
·792	·773	·779	·783	·807	·819	·843	·853	·850	·837	·840	9 30	·904	15 10	·772	29
·776	·756	·753	·764	·780	·794	·817	·821	·828	·816	·815	9 20	·881	16 30	·753	30
·767	·750	·751	·756	·781	·797	·822	·824	·836	·826	·800	9 37	·851	16 20	·749	31
29·777	**29·761**	29·764	29·768	29·786	29·802	29·826	29·833	29·839	29·829	29·814					
—·037	**—·053**	—·050	—·046	—·028	—·012	+·012	+·019	+·025	+·015						

APRIL.

29·793	29·779	29·783	29·786	29·809	29·823	29·841	29·849	29·854	29·843	29·821	10 40	29·879	15 8	29·778	1
·809	·788	·783	·776	·799	·804	·815	·823	·833	·827	·831	10 15	·898	17 10	·774	2
·753	·728	·723	·711	·727	·731	·750	·755	·767	·759	·789	8 55	·870	17 35	·709	3
·716	·695	·694	·685	·705	·715	·752	·786	·799	·798	·753	10 15	·816	17 20	·684	4
·794	·772	·769	·768	·778	·789	·807	·811	·813	·810	·807	10 57	·866	17 28	·768	5
·766	·745	·739	·737	·758	·767	·786	·790	·799	·788	·790	10 30	·847	17 26	·737	6
·745	·828	·824	·833	·755	·771	·796	·809	·825	·809	·798	8 53	·850	16 12	·740	7
·765	·753	·760	·760	·779	·784	·805	·806	·818	·812	·801	8 30	·859	15 10	·751	8
·759	·741	·747	·764	·791	·801	·816	·823	·832	·819	·796	8 33	·848	15 12	·740	9
·765	·745	·740	·748	·760	·779	·811	·813	·823	·810	·794	8 25	·848	16 41	·740	10
·752	·732	·732	·724	·754	·772	·798	·802	·810	·795	·787	9 7	·845	17 25	·723	11
·754	·736	·732	·728	·746	·762	·790	·794	·812	·801	·783	10 47	·846	17 30	·727	12
·752	·730	·728	·729	·750	·766	·794	·806	·814	·798	·781	10 17	·846	16 32	·727	13
·731	·715	·717	·718	·737	·755	·780	·801	·807	·795	·771	9 47	·830	15 55	·714	14
·752	·736	·735	·734	·759	·773	·795	·796	·811	·799	·782	9 27	·837	17 15	·732	15
·720	·696	·688	·690	·718	·730	·752	·761	·763	·748	·751	8 35	·803	16 50	·686	16
·700	·688	·687	·688	·715	·726	·758	·767	·775	·762	·728	22 14	·778	3 10	·683	17
·777	·766	·763	·759	·773	·780	·799	·807	·815	·795	·785	10 20	·842	3 30	·728	18
·782	·764	·774	·781	·800	·806	·820	·820	·826	·816	·807	9 28	·859	15 38	·765	19
·792	·777	·783	·781	·801	·801	·827	·837	·850	·839	·816	10 36	·866	15 43	·776	20
·822	·802	·794	·788	·800	·802	·813	·815	·821	·802	**·833**	10 7	**·905**	16 15	·787	21
·755	·733	·723	·716	·737	·747	·771	·781	·797	·788	·787	9 40	·848	16 55	·714	22
·728	·709	·705	·699	·725	·736	·756	·757	·768	·763	·767	8 8	·825	17 48	·697	23
·791	·771	·775	·773	·792	·802	·825	·823	·839	·825	·802	10 20	·862	3 52	·742	24
·803	·784	·781	·774	·792	·795	·811	·821	·840	·845	·831	8 58	·904	17 40	·774	25
·777	·749	·747	·753	·780	·783	·817	·831	·843	·839	·821	9 17	·880	16 48	·746	26
·796	·766	·761	·774	·788	·795	·822	·822	·827	·819	·821	9 58	·889	16 15	·759	27
·735	·710	·700	·692	·806	·719	·752	·768	·781	·772	·782	8 37	·845	17 37	·691	28
·749	·729	·724	·719	·729	·730	·753	·753	·762	·744	·762	10 0	·820	17 38	·719	29
·697	·675	·667	**·662**	·671	·684	·716	·721	·731	·729	**·709**	10 10	·742	17 5	**·660**	30
29·761	29·745	29·743	**29·742**	29·761	29·768	29·791	29·798	29·809	29·798	29·790					Mean.
—·029	—·045	—·047	**—·048**	—·029	—·022	+·001	+·008	+·019	+·008						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·725	29·701	29·687	29·681	29·695	29·699	29·721	29·740	29·757	29·756	29·762	29·746	29·737	29·709
2	·757	·746	·735	·723	·737	·759	·785	·799	·815	·811	·806	·791	·777	·745
3	·756	·737	·735	·726	·743	·755	·772	·780	·798	·796	·795	·782	·772	·742
4	·758	·742	·738	·731	·740	·748	·766	·780	·806	·808	·810	·790	·783	·751
5	·753	·736	·734	·722	·732	·738	·760	·762	·776	·776	·777	·766	·750	·724
6	·708	·692	·686	·682	·692	·694	·724	·733	·750	·742	·741	·727	·720	·706
7	·731	·718	·718	·717	·731	·738	·762	·772	·790	·792	·798	·788	·780	·760
8	·787	·779	·779	·767	·787	·799	·827	·847	·870	·873	·881	·868	·851	·827
9	·827	·809	·794	·781	·796	·798	·810	·823	·840	·838	·846	·832	·821	·796
10	·823	·805	·798	·790	·802	·809	·829	·840	·857	·860	·864	·847	·834	·812
11	·829	·813	·811	·808	·819	·828	·856	·870	·887	·883	·883	·867	·857	·831
12	·823	·807	·805	·799	·817	·825	·857	·875	·897	·896	·901	·891	·878	·873
13	·846	·826	·820	·812	·829	·840	·873	·887	·898	·896	·890	·872	·866	·844
14	·830	·809	·811	·809	·826	·836	·866	·883	·908	·908	·908	·892	·878	·860
15	·865	·851	·851	·849	·860	·866	·892	·899	·910	·909	·903	·881	·863	·833
16	·874	·866	·864	·857	·874	·882	·902	·912	**·926**	·920	·915	·890	·872	·848
17	·837	·827	·815	·806	·816	·822	·839	·847	·866	·863	·864	·846	·838	·810
18	·815	·793	·791	·787	·795	·802	·832	·838	·863	·863	·857	·841	·825	·797
19	·791	·769	·766	·757	·766	·779	·814	·837	·860	·863	·873	·863	·852	·828
20	·813	·814	·817	·808	·819	·823	·846	·857	·870	·871	·873	·856	·831	·808
21	·814	·789	·778	·775	·799	·805	·825	·829	·843	·847	·838	·823	·821	·790
22	·777	·759	·750	·749	·765	·772	·793	·808	·817	·814	·817	·802	·796	·780
23	·795	·775	·767	·755	·766	·768	·794	·804	·827	·826	·828	·814	·799	·773
24	·773	·763	·766	·763	·763	·769	·791	·798	·808	·807	·808	·791	·768	·747
25	·774	·765	·754	·750	·763	·772	·797	·807	·820	·821	·820	·810	·791	·764
26	·765	·745	·737	·734	·749	·750	·770	·778	·800	·800	·802	·788	·772	·752
27	·736	·716	·707	·706	·715	·726	·751	·758	·772	·780	·783	·768	·754	·730
28	·758	·743	·742	·742	·755	·766	·795	·804	·813	·807	·800	·782	·769	·745
29	·746	·726	·724	·724	·738	·746	·764	·774	·783	·776	·773	·758	·743	·716
30	·700	·676	·655	·656	·658	·665	·675	·686	·698	·701	·703	·689	·673	·645
31	·643	·628	·624	·623	·626	·623	·643	·650	·668	·664	·649	·634	·610	·575
Mean	29·782	29·765	29·760	29·754	29·767	29·774	29·798	29·809	**29·826**	29·825	29·825	29·810	29·796	29·772
Variation	+·004	—·013	—·018	—·024	—·011	—·004	+·020	+·031	**+·048**	+·047	+·047	+·032	+·018	—·006

JUNE.

1	29·595	29·570	29·563	29·549	29·564	29·569	29·584	29·595	29·603	29·600	29·603	29·593	29·585	29·548
2	·586	·574	·568	·568	·582	·596	·621	·630	·648	·647	·648	·641	·634	·610
3	·653	·635	·623	·607	·619	·629	·655	·658	·667	·671	·676	·665	·646	·627
4	·628	·620	·619	·613	·628	·639	·661	·665	·677	·680	·684	·671	·667	·647
5	·675	·632	·611	·600	·617	·640	·663	·677	·713	·718	·725	·720	·709	·711
6	·763	·751	·754	·751	·763	·766	·784	·785	·785	·789	·803	·798	·796	·779
7	·816	·796	·794	·794	·802	·810	·828	·836	·845	·840	·836	·825	·819	·807
8	·827	·804	·793	·788	·800	·812	·836	·842	·852	·849	·850	·837	·830	·803
9	·776	·760	·750	·746	·765	·773	·789	·797	·810	·808	·807	·798	·786	·777
10	·747	·730	·722	·715	·726	·740	·760	·761	·779	·784	·786	·784	·775	·757
11	·747	·721	·721	·710	·709	·709	·725	·730	·753	·749	·756	·742	·730	·726
12	·689	·662	·650	·646	·655	·662	·677	·677	·690	·687	·694	·679	·667	·641
13	·630	·614	·619	·610	·615	·620	·642	·637	·649	·634	·626	·618	·602	·572
14	·565	·546	·546	·533	·540	·531	·563	·576	·594	·607	·616	·600	·577	·560
15	·574	·541	·531	·518	·525	·528	·557	·570	·592	·595	·609	·595	·581	·577
16	·611	·580	·576	·543	·572	·585	·606	·624	·640	·640	·650	·634	·632	·612
17	·624	·596	·585	·570	·565	·563	·562	·492	·577	·589	·587	·582	·572	·538
18	**·366**	·421	·466	·471	·478	·465	·487	·491	·521	·527	·546	·530	·523	·505
19	·566	·537	·536	·540	·559	·571	·602	·610	·632	·642	·664	·654	·654	·655
20	·725	·706	·706	·701	·714	·712	·737	·756	·771	·770	·773	·753	·760	·750
21	·809	·794	·794	·787	·795	·802	·826	·842	·855	·852	·854	·842	·840	·833
22	·826	·809	·809	·801	·812	·807	·836	·838	**·857**	·850	·849	·831	·814	·795
23	·768	·748	·737	·727	·738	·741	·762	·771	·785	·783	·787	·772	·756	·748
24	·742	·723	·716	·711	·716	·724	·740	·755	·764	·757	·760	·749	·736	·718
25	·723	·700	·695	·683	·691	·695	·720	·727	·734	·732	·739	·730	·718	·697
26	·727	·703	·699	·689	·708	·716	·743	·754	·776	·775	·789	·783	·777	·755
27	·752	·736	·729	·716	·721	·727	·741	·747	·754	·753	·760	·746	·724	·708
28	·697	·679	·673	·669	·676	·686	·706	·733	·732	·726	·726	·717	·697	·678
29	·685	·665	·664	·658	·654	·662	·688	·694	·709	·710	·718	·699	·689	·680
30	·679	·663	·655	·637	·642	·644	·662	·672	·688	·691	·693	·685	·679	·658
Mean	29·686	29·667	29·663	29·655	29·665	29·671	29·692	29·698	29·715	29·715	**29·720**	29·709	29·699	29·682
Variation	+·002	—·017	—·021	—·029	—·019	—·013	+·008	+·014	+·031	+·031	**+·036**	+·025	+·015	—·002

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·699	29·683	29·681	29·674	29·701	29·717	29·743	29·753	29·765	29·765	29·721	22 48	29·766	16 10	29·674	1
·729	·705	·706	·703	·727	·741	·763	·765	·777	·765	·757	8 28	·816	17 15	·702	2
·720	·698	·691	·686	·710	·718	·737	·745	·762	·760	·747	8 45	·799	16 27	·684	3
·720	·698	·694	·690	·703	·726	·754	·754	·768	·756	·751	10 40	·811	17 30	·689	4
·702	·680	·676	·675	·694	·703	·724	·726	·738	·722	·731	10 35	·779	17 10	·673	5
·692	·678	·682	·680	·699	·712	·730	·736	·744	·732	·712	8 45	·751	15 50	·677	6
·752	·737	·736	·740	·760	·776	·790	·792	·802	·794	·761	22 4	·803	3 55	·717	7
·807	·795	·785	·782	·799	·807	·823	·834	·851	·839	·819	10 27	·882	3 0	·764	8
·784	·772	·776	·784	·804	·822	·842	·844	·852	·838	·814	22 55	·854	15 35	·772	9
·797	·777	·774	·778	·798	·808	·829	·833	·854	·834	·819	10 50	·865	16 0	·773	10
·815	·801	·796	·803	·828	·831	·843	·842	·850	·836	·837	8 55	·888	16 12	·794	11
·847	·825	·825	·827	·839	·848	·864	·865	·870	·857	·850	8 45	·904	3 25	·798	12
·825	·802	·802	·809	·824	·830	·848	·848	·857	·840	·845	8 22	·899	16 30	·799	13
·844	·817	·812	·808	·821	·834	·854	·864	·878	·874	·851	8 55	·909	17 0	·807	14
·809	·792	·796	·803	·827	·839	·865	·881	·892	·877	·859	8 50	·912	15 27	·792	15
·830	·808	·799	·796	·810	·821	·835	·841	·862	·847	**·860**	8 15	**·927**	16 48	·794	16
·794	·775	·776	·772	·787	·801	·824	·830	·835	·818	·821	8 45	·867	15 55	·770	17
·787	·756	·747	·735	·769	·777	·797	·811	·816	·799	·804	8 17	·868	17 10	·734	18
·808	·783	·768	·766	·784	·787	·809	·807	·811	·808	·806	10 35	·874	3 24	·756	19
·795	·773	·765	·761	·781	·787	·798	·809	·831	·832	·818	10 25	·874	17 35	·760	20
·775	·755	·747	·737	·753	·767	·779	·783	·784	·782	·793	9 36	·848	17 44	·736	21
·768	·744	·743	·744	·762	·778	·800	·806	·821	·807	·782	22 28	·824	16 45	·741	22
·759	·743	·743	·746	·756	·769	·782	·788	·791	·779	·781	10 46	·830	16 16	·740	23
·733	·709	·723	·727	·744	·757	·782	·783	·793	·781	·769	10 0	·808	15 47	·707	24
·748	·729	·731	·732	·751	·762	·781	·784	·786	·772	·774	10 0	·824	15 40	·729	25
·740	·714	·707	·707	·719	·730	·748	·748	·753	·742	·752	10 10	·803	16 36	·707	26
·714	·695	·700	·704	·723	·737	·751	·765	·778	·770	·739	10 15	·785	15 33	·689	27
·732	·719	·717	·718	·741	·752	·765	·767	·771	·754	·761	9 17	·814	16 26	·715	28
·698	·676	·668	·662	·678	·693	·718	·722	·726	·714	·727	9 40	·785	17 0	·662	29
·620	·588	·591	·609	·628	·628	·639	·650	·665	·654	·657	10 10	·704	16 15	·586	30
·547	·531	**·529**	·539	·579	·583	·604	·604	·614	·598	**·608**	8 40	·673	16 0	·527	31
29·755	29·734	**29·732**	29·732	29·752	29·763	29·781	29·786	29·797	29·785	29·778					Mean.
—·023	—·044	**—·046**	—·046	—·026	—·015	+·003	+·008	+·019	+·007						Variation.

JUNE.

29·527	29·517	29·523	29·528	29·551	29·567	29·591	29·585	29·594	29·593	29·571	8 25	29·606	15 7	29·516	1
·591	·572	·574	·584	·614	·636	·665	·669	·679	·665	·617	22 20	·683	2 15	·567	2
·619	·602	·599	·604	·640	·659	·693	·708	·683	·638	·645	21 22	·712	16 15	·598	3
·630	·602	·593	·594	·626	·653	·687	·707	·720	·709	·651	22 15	·728	17 5	·592	4
·704	·679	·669	·666	·679	·700	·744	·757	·763	·765	·689	21 12	·769	3 50	·597	5
·775	·763	·761	·767	·792	·797	·813	·818	·834	·829	·784	22 25	·836	3 8	·748	6
·786	·772	·770	·775	·793	·807	·834	·837	·846	·830	·812	22 15	·853	16 25	·769	7
·789	·769	·768	·776	·789	·802	·817	·817	·811	·796	·811	8 27	·858	16 45	·766	8
·750	·737	·731	·720	·742	·755	·769	·767	·772	·757	·768	8 32	·815	16 50	·717	9
·746	·734	·734	·728	·734	·738	·757	·753	·759	·746	·750	9 10	·790	3 35	·714	10
·718	·695	·677	·671	·691	·697	·707	·707	·709	·695	·716	9 0	·758	17 0	·669	11
·625	·593	·591	·595	·620	·619	·638	·641	·655	·641	·650	10 0	·696	15 55	·590	12
·554	·528	·517	·531	·553	·564	·585	·600	·601	·58)	·596	8 0	·649	16 28	·515	13
·554	·537	·530	·532	·547	·555	·582	·593	·608	·592	·566	10 50	·620	16 20	·526	14
·560	·547	·555	·555	·579	·596	·615	·619	·635	·618	·574	22 32	·641	3 25	·517	15
·598	·584	·573	·581	·591	·605	·626	·644	·652	·637	·608	21 50	·657	3 55	·542	16
·512	·490	·502	·500	·516	·507	·513	·502	·486	·401	·539	0 5	·630	23 50	·368	17
·502	·483	·491	·507	·529	·547	·566	·575	·580	·573	**·506**	22 0	·585	0 0	**·355**	18
·649	·636	·638	·643	·667	·674	·685	·703	·732	·727	·632	22 30	·736	2 5	·533	19
·754	·750	·754	·755	·774	·790	·810	·813	·824	·817	·757	22 30	·837	3 17	·699	20
·829	·805	·794	·786	·796	·806	·830	·832	·844	·835	**·820**	8 45	·861	3 40	·785	21
·789	·769	·762	·759	·775	·781	·795	·790	·790	·777	·805	8 30	**·864**	17 10	·758	22
·730	·709	·707	·710	·726	·740	·751	·760	·760	·755	·749	9 5	·788	16 30	·704	23
·706	·689	·682	·678	·697	·710	·722	·723	·741	·737	·725	8 10	·768	17 10	·676	24
·681	·657	·658	·649	·677	·694	·719	·719	·733	·740	·705	23 15	·742	17 5	·646	25
·733	·709	·699	·705	·729	·729	·753	·761	·770	·754	·739	10 20	·793	3 0	·686	26
·692	·670	·658	·662	·678	·695	·708	·708	·713	·698	·717	10 0	·765	16 20	·657	27
·670	·651	·641	·637	·654	·664	·676	·687	·701	·689	·686	7 35	·739	17 0	·635	28
·666	·642	·638	·644	·656	·667	·684	·692	·702	·677	·677	9 30	·723	16 30	·637	29
·646	·617	·617	·514	·632	·643	·654	·667	·675	·673	·658	10 0	·698	16 55	·612	30
29·670	29·650	**29·647**	29·649	29·668	29·680	29·700	29·705	29·712	29·698	29·684					Mean.
—·014	—·034	**—·037**	—·035	—·016	—·004	+·016	+·021	+·028	+·014						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32°F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·667	29·646	29·628	29·604	29·603	29·608	29·626	29·635	29·650	29·656	29·661	29·644	29·632	29·617
2	·607	·588	·573	·557	·550	·569	·587	·605	·610	·612	·610	·599	·592	·577
3	·572	·542	·545	·534	·536	·538	·556	·564	·574	·571	·575	·560	·534	·529
4	·510	·485	·467	**·451**	·462	·463	·490	·500	·517	·520	·521	·507	·507	·493
5	·515	·496	·488	·490	·505	·521	·546	·568	·587	·593	·605	·593	·578	·557
6	·636	·625	·624	·622	·623	·640	·662	·677	·707	·705	·716	·708	·711	·699
7	·725	·709	·705	·693	·691	·697	·717	·725	·740	·735	·739	·733	·721	·707
8	·710	·686	·678	·664	·668	·673	·689	·702	·715	·720	·728	·717	·716	·701
9	·696	·678	·674	·667	·676	·682	·704	·710	·725	·724	·730	·719	·709	·696
10	·705	·684	·686	·675	·678	·683	·706	·717	·732	·741	·743	·734	·728	·716
11	·713	·684	·684	·672	·684	·686	·713	·724	·735	·731	·732	·719	·711	·712
12	·649	·623	·615	·608	·611	·617	·637	·640	·647	·641	·637	·621	·618	·599
13	·567	·545	·534	·537	·544	·552	·556	·562	·594	·592	·601	·594	·582	·584
14	·682	·660	·664	·655	·677	·689	·718	·731	·756	·757	·760	·751	·749	·728
15	·757	·742	·739	·730	·736	·739	·758	·768	·785	·787	·788	·774	·756	·743
16	·726	·709	·706	·692	·691	·697	·726	·731	·748	·746	·756	·741	·724	·712
17	·691	·674	·672	·651	·651	·651	·666	·673	·691	·690	·698	·701	·691	·681
18	·711	·686	·683	·669	·680	·682	·704	·713	·749	·745	·750	·738	·731	·713
19	·733	·717	·718	·694	·703	·707	·730	·732	·742	·748	·736	·724	·713	·705
20	·694	·674	·667	·655	·663	·666	·685	·685	·695	·694	·697	·687	·677	·647
21	·613	·589	·592	·585	·596	·597	·612	·613	·631	·631	·633	·614	·599	·586
22	·572	·545	·542	·535	·542	·537	·560	·567	·585	·581	·587	·575	·570	·559
23	·565	·543	·537	·528	·541	·544	·568	·576	·598	·595	·597	·591	·578	·570
24	·580	·558	·557	·548	·556	·554	·577	·589	·603	·609	·618	·603	·596	·571
25	·569	·539	·535	·520	·528	·536	·563	·575	·593	·587	·604	·600	·585	·571
26	·586	·568	·568	·554	·553	·551	·576	·588	·614	·614	·625	·611	·607	·586
27	·582	·558	·548	·535	·538	·538	·562	·570	·588	·588	·586	·575	·573	·550
28	·570	·551	·546	·544	·553	·555	·590	·598	·626	·628	·645	·635	·627	·609
29	·650	·625	·624	·619	·626	·629	·658	·676	·705	·707	·721	·716	·698	·687
30	·733	·713	·715	·706	·717	·717	·744	·752	·780	·788	·808	·799	·798	·782
31	·811	·795	·793	·781	·787	·783	·803	·811	·833	·838	**·856**	·844	·832	·819
Mean	29·648	29·627	29·623	**29·612**	29·618	29·623	29·645	29·654	29·673	29·673	**29·679**	29·669	29·659	29·645
Variation	+·003	—·018	—·022	**—·033**	—·027	—·022	·000	+·009	+·028	+·028	**+·034**	+·024	+·014	·000

AUGUST.

1	29·840	29·821	29·821	29·806	29·818	29·826	29·845	29·847	29·873	29·873	29·875	29·865	29·858	29·841
2	·822	·804	·804	·792	·794	·791	·814	·823	·843	·844	·849	·832	·834	·809
3	·839	·815	·812	·801	·814	·819	·845	·851	·869	·865	·870	·863	·858	·835
4	·851	·817	·813	·799	·805	·804	·815	·813	·831	·837	·839	·823	·816	·777
5	·746	·718	·711	·697	·711	·721	·743	·746	·767	·769	·777	·769	·765	·741
6	·723	·703	·702	·695	·709	·703	·724	·727	·753	·749	·749	·733	·723	·709
7	·713	·690	·679	·674	·684	·683	·710	·717	·734	·731	·734	·718	·705	·688
8	·688	·659	·661	·653	·669	·672	·702	·711	·725	·726	·737	·727	·717	·709
9	·747	·720	·711	·704	·714	·721	·746	·753	·768	·765	·762	·759	·746	·730
10	·714	·689	·676	·667	·670	·661	·682	·687	·707	·699	·701	·683	·665	·649
11	·624	**·602**	·602	·602	·614	·614	·638	·646	·667	·677	·688	·676	·671	·649
12	·671	·658	·656	·644	·649	·651	·676	·676	·698	·701	·704	·696	·693	·666
13	·676	·658	·659	·650	·663	·663	·692	·699	·728	·727	·739	·741	·737	·718
14	·731	·712	·696	·682	·691	·688	·702	·708	·726	·726	·733	·730	·728	·696
15	·694	·676	·666	·660	·656	·660	·674	·691	·710	·720	·732	·725	·716	·694
16	·719	·701	·696	·693	·708	·706	·732	·745	·764	·764	·773	·759	·752	·727
17	·740	·726	·719	·706	·717	·721	·734	·748	·769	·770	·775	·763	·755	·733
18	·723	·707	·707	·700	·704	·706	·738	·744	·768	·771	·776	·763	·750	·731
19	·740	·720	·724	·712	·720	·710	·725	·735	·761	·763	·771	·757	·746	·721
20	·713	·691	·689	·682	·693	·692	·710	·724	·747	·743	·747	·729	·717	·701
21	·700	·682	·674	·666	·673	·673	·696	·705	·731	·739	·738	·722	·714	·689
22	·727	·706	·707	·702	·709	·713	·732	·745	·763	·767	·769	·755	·751	·737
23	·767	·747	·739	·731	·744	·739	·763	·773	·799	·803	·811	·794	·781	·758
24	·758	·735	·728	·716	·716	·720	·740	·754	·784	·786	·795	·783	·768	·740
25	·734	·708	·696	·688	·704	·715	·731	·744	·766	·769	·774	·766	·752	·727
26	·760	·688	·678	·674	·686	·689	·711	·716	·738	·738	·740	·726	·719	·702
27	·699	·663	·659	·641	·651	·650	·673	·687	·715	·718	·713	·697	·689	·672
28	·705	·686	·685	·669	·676	·680	·702	·714	·744	·748	·756	·745	·745	·719
29	·765	·745	·742	·737	·750	·750	·770	·782	·807	·803	·816	·800	·782	·767
30	·793	·769	·753	·747	·759	·758	·785	·790	·808	·808	·810	·797	·783	·761
31	·775	·751	·749	·737	·753	·763	·779	·790	·815	·814	·816	·801	·785	·755
Mean	29·739	29·715	29·710	**29·701**	29·710	29·712	29·733	29·741	29·764	29·765	**29·770**	29·758	29·749	29·727
Variation	+·008	—·016	—·021	**—·030**	—·021	—·019	+·002	+·010	+·033	+·034	**+·039**	+·027	+·018	—·004

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·592	29·584	29·574	29·565	29·584	29·595	29·615	29·623	29·627	29·621	29·619	0 5	29·670	17 10	29·565	1
·561	·547	·541	·541	·556	·564	·591	·595	·593	·586	·580	9 30	·612	17 22	·539	2
·512	·473	·473	·466	·487	·512	·523	·524	·532	·514	·531	10 20	·576	17 5	·464	3
·488	·468	·463	·469	·489	·505	·527	·536	·537	·524	**·496**	22 34	·539	3 15	**·451**	4
·555	·544	·550	·558	·584	·601	·623	·633	·647	·639	·566	22 47	·648	2 0	·486	5
·692	·678	·674	·684	·704	·718	·734	·744	·756	·736	·686	22 10	·758	3 12	·622	6
·698	·683	·679	·678	·690	·706	·726	·733	·734	·723	·712	9 40	·741	17 50	·677	7
·696	·683	·683	·673	·683	·697	·705	·710	·717	·705	·697	10 50	·728	3 28	·662	8
·685	·670	·669	·674	·690	·698	·718	·724	·725	·711	·698	10 20	·731	3 33	·667	9
·704	·685	·681	·684	·693	·698	·722	·727	·728	·717	·707	10 30	·748	3 27	·675	10
·679	·656	·657	·636	·655	·655	·672	·674	·684	·659	·689	8 40	·736	17 23	·634	11
·588	·569	·571	·560	·578	·573	·583	·587	·597	·583	·606	9 0	·650	17 28	·560	12
·578	·565	·583	·583	·617	·635	·665	·676	·692	·682	·593	10 28	·701	2 47	·534	13
·727	·715	·705	·712	·729	·736	·759	·768	·777	·769	·724	22 25	·779	3 30	·653	14
·725	·706	·704	·696	·710	·714	·739	·732	·739	·725	·741	10 15	·790	17 32	·695	15
·695	·664	·658	·653	·670	·675	·699	·694	·713	·703	·705	10 35	·758	17 22	·651	16
·683	·665	·668	·661	·680	·683	·706	·713	·721	·708	·682	22 10	·722	3 28	·650	17
·712	·703	·703	·703	·713	·720	·734	·743	·751	·736	·715	10 5	·752	3 30	·667	18
·695	·677	·683	·680	·695	·696	·724	·717	·724	·705	·712	9 28	·749	16 25	·675	19
·655	·627	·627	·625	·628	·640	·647	·649	·656	·629	·662	10 34	·699	3 35	·653	20
·567	·543	·545	·544	·571	·576	·594	·594	·603	·583	·592	10 12	·634	15 30	·543	21
·551	·524	·532	·531	·551	·558	·581	·583	·587	·572	·559	10 28	·589	15 10	·522	22
·558	·528	·536	·539	·564	·572	·595	·598	·610	·595	·568	22 38	·610	3 12	·526	23
·548	·526	·521	·522	·547	·558	·586	·592	·606	·588	·571	10 15	·620	16 35	·519	24
·560	·537	·537	·541	·561	·567	·584	·589	·601	·590	·565	10 17	·605	4 32	·519	25
·574	·559	·557	·556	·570	·573	·591	·595	·606	·591	·582	10 25	·625	5 15	·550	26
·544	·532	·532	·529	·545	·555	·572	·575	·590	·571	·560	22 12	·592	16 55	·528	27
·607	·591	·594	·603	·627	·629	·644	·652	·668	**·656**	·606	22 13	·668	3 10	·543	28
·682	·665	·684	·683	·709	·713	·728	·727	·746	·739	·684	22 30	·748	3 58	·619	29
·779	·767	·774	·776	·793	·798	·813	·818	·833	·822	·772	22 22	·834	3 34	·704	30
·807	·790	·794	·794	·815	·814	·830	·838	·845	·835	**·815**	10 40	**·858**	3 42	·779	31
29·635	29·617	29·618	29·617	29·635	29·643	29·662	29·667	29·676	29·662	29·645					Mean.
—·010	—·028	—·027	—·028	—·010	—·002	+·017	+·022	+·031	+·017						Variation.

AUGUST.

29·831	29·806	29·811	29·806	29·823	29·825	29·835	29·832	29·839	29·822	29·835	10 30	29·878	3 40	29·804	1
·812	·798	·800	·796	·814	·817	·843	·847	·857	·842	·820	22 12	·859	5 30	·789	2
·825	·806	·811	·815	·833	·842	·859	·863	**·876**	·856	**·839**	22 25	**·876**	3 43	·800	3
·759	·743	·743	·741	·755	·759	·770	·773	·777	·762	·793	0 0	·852	17 32	·740	4
·733	·711	·713	·709	·724	·721	·740	·735	·742	·730	·735	10 35	·779	3 40	·696	5
·696	·687	·688	·687	·709	·711	·731	·729	·738	·723	·717	8 55	·754	17 10	·686	6
·682	·660	·666	·663	·684	·690	·711	·706	·713	·698	·697	10 20	·735	15 32	·659	7
·703	·691	·699	·694	·720	·725	·742	·741	·756	·760	·708	23 8	·762	3 20	·650	8
·730	·711	·712	·705	·730	·735	·752	·748	·754	·726	·735	8 58	·768	3 45	·703	9
·630	·613	·614	·605	·622	·626	·648	·644	·650	·630	·660	0 0	·716	17 30	·604	10
·641	·626	·629	·630	·645	·650	·670	·678	·690	·681	**·646**	22 48	·692	3 40	**·602**	11
·643	·621	·629	·629	·650	·656	·689	·688	·695	**·686**	·668	10 27	·704	16 0	·620	12
·703	·682	·681	·689	·711	·715	·731	·729	·740	·738	·703	11 35	·742	3 37	·650	13
·676	·662	·654	·652	·666	·678	·700	·706	·712	·702	·698	10 12	·736	17 15	·651	14
·683	·670	·670	·671	·690	·696	·719	·722	·728	·720	·693	10 50	·733	4 45	·655	15
·722	·705	·707	·706	·724	·733	·743	·744	·757	·740	·730	10 40	·776	3 57	·691	16
·724	·715	·715	·718	·739	·740	·753	·752	·751	·739	·738	10 37	·778	3 42	·704	17
·726	·702	·700	·704	·728	·730	·756	·750	·763	·740	·733	10 40	·777	3 38	·699	18
·713	·696	·697	·690	·709	·713	·729	·727	·731	·719	·726	10 52	·774	17 5	·690	19
·694	·677	·672	·673	·691	·695	·709	·718	·723	·708	·706	10 25	·749	16 43	·670	20
·684	·680	·685	·687	·704	·705	·726	·728	·742	·730	·703	22 46	·742	3 47	·664	21
·732	·723	·727	·730	·751	·760	·779	·780	·791	·773	·743	22 40	·794	3 52	·702	22
·749	·734	·733	·732	·740	·750	·773	·778	·775	·765	·762	10 43	·814	3 17	·730	23
·728	·707	·707	·709	·724	·728	·742	·743	·753	·739	·742	10 32	·798	16 45	·705	24
·710	·694	·691	·696	·716	·720	·731	·737	·739	·720	·726	10 16	·776	3 48	·688	25
·682	·658	·649	·648	·666	·680	·702	·705	·718	·702	·700	0 0	·760	17 32	·647	26
·665	·639	·642	·644	·662	·669	·699	·708	·726	·712	·679	22 30	·728	16 45	·639	27
·707	·695	·706	·704	·729	·740	·768	·773	·788	·779	·724	22 28	·789	3 50	·669	28
·753	·740	·740	·735	·759	·771	·805	·809	·811	·798	·772	10 35	·818	3 42	·733	29
·749	·739	·744	·742	·764	·769	·791	·792	·801	·783	·775	10 15	·810	15 30	·737	30
·741	·729	·719	·719	·739	·745	·766	·770	·775	·763	·765	10 20	·816	17 0	·718	31
29·717	29·701	29·702	29·701	29·720	29·726	29·746	29·747	29·755	29·741	29·731					Mean.
—·014	—·030	—·029	—·030	—·011	—·005	+·015	+·016	+·024	+·010						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	29·748	29·730	29·713	29·708	29·719	29·722	29·735	29·752	29·770	29·768	29·776	29·757	29·746	29·734
2	·761	·748	·740	·733	·743	·750	·773	·781	·810	·812	·824	·821	·813	·793
3	·826	·816	·802	·793	·800	·802	·821	·828	·842	·842	·848	·834	·819	·790
4	·785	·771	·748	·755	·769	·771	·781	·802	·833	·840	·792	·828	·807	·791
5	·805	·791	·790	·783	·798	·801	·825	·841	·867	·872	·873	·867	·839	·837
6	·823	·796	·787	·772	·791	·800	·820	·840	·864	·871	·877	·859	·855	·829
7	·831	·814	·802	·788	·802	·806	·827	·841	·861	·859	·859	·844	·829	·804
8	·799	·771	·753	·745	·753	·755	·781	·798	·825	·832	·829	·819	·806	·783
9	·780	·758	·750	·750	·760	·762	·792	·806	·828	·834	·839	·828	·812	·797
10	·812	·794	·792	·778	·786	·799	·816	·840	·863	·866	·874	·858	·844	·812
11	·841	·823	·819	·809	·816	·823	·842	·853	·883	·883	·878	·854	·822	·784
12	·822	·813	·807	·803	·827	·841	·865	·879	**·895**	·883	·877	·869	·845	·813
13	·848	·833	·834	·833	·853	·851	·857	·848	·856	·872	·871	·851	·825	·792
14	·801	·786	·786	·790	·805	·809	·828	·840	·861	·874	·871	·852	·815	·786
15	·763	·743	·744	·734	·750	·764	·790	·816	·843	·840	·836	·821	·786	·768
16	·750	·734	·736	·727	·744	·758	·792	·812	·829	·829	·833	·807	·781	·748
17	·759	·734	·739	·732	·743	·747	·773	·789	·807	·807	·813	·790	·761	·728
18	·748	·732	·726	·714	·715	·726	·762	·769	·787	·788	·783	·763	·737	·689
19	·706	·691	·692	·700	·713	·732	·744	·765	·782	·799	·784	·767	·728	·699
20	·660	·644	·648	·645	·648	·630	·637	·682	·710	·680	·666	·656	·646	·614
21	·665	·646	·632	·624	·644	·653	·666	·684	·700	·708	·711	·696	·686	·663
22	·710	·692	·683	·670	·684	·693	·713	·736	·763	·758	·754	·736	·728	·702
23	·746	·733	·722	·705	·701	·708	·733	·747	·757	·753	·748	·733	·713	·701
24	·735	·709	·699	·696	·703	·707	·739	·765	·785	·782	·781	·753	·726	·694
25	·769	·744	·741	·729	·735	·745	·777	·795	·823	·821	·830	·809	·776	·751
26	·805	·787	·765	·749	·761	·777	·791	·800	·804	·791	·781	·773	·757	·719
27	·728	·714	·706	·697	·708	·710	·730	·736	·763	·760	·758	·733	·720	·703
28	·723	·692	·695	·683	·693	·693	·715	·735	·767	·775	·774	·752	·733	·709
29	·761	·744	·744	·745	·749	·761	·782	·794	·814	·821	·831	·805	·781	·757
30	·797	·778	·776	·766	·769	·785	·812	·831	·855	·847	·849	·824	·804	·778
Mean .	29·770	29·752	29·746	29·739	29·749	29·756	29·777	29·793	**29·815**	29·815	29·814	29·799	29·778	29·752
Variation.	+·002	—·016	—·022	—·029	—·019	—·012	+·009	+·025	**+·047**	+·047	+·046	+·031	+·010	—·016

OCTOBER.

1	29·789	29·776	29·751	29·754	29·761	29·773	29·801	29·812	29·828	29·833	29·827	29·805	29·789	29·738
2	·767	·741	·740	·731	·747	·747	·780	·792	·826	·837	·831	·811	·783	·751
3	·753	·735	·733	·729	·743	·758	·778	·797	·815	·812	·802	·780	·757	·740
4	·791	·783	·774	·764	·770	·780	·802	·822	·847	·847	·851	·833	·814	·788
5	·804	·779	·780	·773	·787	·796	·821	·824	·854	·849	·860	·835	·809	·784
6	·801	·791	·795	·786	·796	·800	·823	·829	·856	·860	·856	·837	·819	·793
7	·824	·801	·804	·797	·816	·817	·845	·862	·897	·897	·896	·876	·847	·818
8	·830	·804	·800	·796	·807	·814	·845	·856	·883	·884	·898	·850	·833	·809
9	·824	·801	·792	·789	·798	·804	·831	·838	·865	·866	·861	·833	·825	·788
10	·820	·800	·799	·784	·803	·809	·832	·845	·870	·871	·871	·850	·831	·791
11	·858	·838	·836	·839	·852	·859	·888	·901	·926	·935	·932	·913	·903	·872
12	·899	·878	·876	·877	·891	·900	·915	·930	·947	·943	·937	·907	·883	·843
13	·862	·843	·846	·847	·864	·872	·896	·903	·923	·925	·916	·895	·874	·846
14	·876	·858	·856	·849	·862	·859	·897	·906	·932	·931	·929	·899	·882	·857
15	·889	·870	·875	·865	·881	·877	·917	·934	·953	·953	·949	·934	·917	·895
16	·935	·914	·915	·907	·926	·937	·963	·967	·985	·981	·973	·948	·919	·899
17	·911	·888	·893	·886	·907	·917	·940	·961	·982	·979	·966	·938	·918	·898
18	·940	·917	·913	·911	·929	·940	·969	·980	30·003	30·002	·993	·970	·951	·933
19	·952	·930	·926	·912	·932	·943	·972	·986	29.991	29·992	·990	·960	·941	·923
20	·960	·937	·930	·917	·930	·940	·979	·972	·991	·993	30·006	·979	·964	·939
21	·959	·940	·935	·938	·945	·958	·982	·999	**30·008**	30·008	29·996	·970	·945	·913
22	·920	·901	·900	·890	·905	·909	·936	·947	29·968	29·966	·965	·941	·912	·877
23	·918	·906	·901	·899	·907	·916	·942	·950	·971	·972	·971	·947	·922	·897
24	·934	·921	·917	·910	·919	·930	·955	·970	·996	30·000	·986	·960	·936	·908
25	·921	·908	·904	·905	·914	·927	·959	·979	·999	·004	·991	·967	·939	·901
26	·932	·917	·908	·910	·922	·934	·958	·976	30·002	·007	·997	·972	·944	·917
27	·931	·912	·900	·894	·902	·907	·935	·949	29·972	29·971	·958	·930	·902	·869
28	·882	·861	·861	·848	·861	·873	·907	·918	·943	·940	·926	·890	·869	·839
29	·853	·835	·829	·820	·826	·837	·858	·870	·890	·890	·876	·842	·820	·785
30	·819	·803	·804	·798	·812	·821	·847	·860	·881	·880	·872	·846	·824	·794
31	·851	·840	·839	·838	·852	·865	·898	·916	·941	·945	·935	·906	·877	·850
Mean .	29·871	29·853	29·849	29·844	29·857	29·865	29·893	29·905	29·927	**29·928**	29·922	29·898	29·876	29·847
Variation.	—·002	—·020	—·024	—·029	—·016	—·008	+·020	+·032	+·054	**+·055**	+·049	+·025	+·003	—·026

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·726	29·710	29·714	29·722	29·748	29·754	29·775	29·784	29·789	29·774	29·745	22 50	29·790	3 15	29·708	1
·789	·778	·784	·787	·811	·820	·840	·840	·857	·840	·794	22 12	·859	3 8	·733	2
·769	·749	·756	·756	·776	·788	·809	·810	·811	·796	·803	10 35	·849	16 0	·748	3
·781	·765	·769	·773	·792	·800	·765	·781	·832	·816	·789	9 38	·842	3 10	·748	4
·818	·807	·812	·813	·835	·838	·849	·847	·829	·847	·829	10 12	·874	3 16	·782	5
·811	·802	·811	·820	·831	·841	·857	·855	·856	·841	·830	10 35	·879	3 41	·771	6
·801	·781	·791	·797	·809	·817	·829	·825	·823	·811	·819	8 38	·864	15 47	·780	7
·773	·768	·773	·774	·793	·801	·815	·813	·810	·793	·790	9 17	·834	3 40	·743	8
·782	·776	·775	·784	·797	·807	·820	·831	·831	·823	·797	10 27	·840	2 27	·748	9
·802	·776	·780	·778	·801	·822	·849	·857	·860	·851	·821	10 40	·876	3 55	·774	10
·771	·744	·756	·769	·796	·813	·819	·828	·850	·839	·821	8 57	·884	16 0	·742	11
·787	·773	·770	·777	·815	·825	·845	·857	·865	·855	**·834**	8 30	**·895**	16 25	·768	12
·775	·753	·753	·752	·778	·803	·828	·826	·821	·804	·822	9 35	·874	17 19	·752	13
·770	·765	·770	·770	·764	·775	·788	·786	·781	·769	·802	9 58	·876	15 50	·764	14
·752	·719	·719	·732	·761	·764	·777	·782	·788	·773	·774	8 40	·844	16 37	·718	15
·722	·708	·716	·725	·746	·759	·785	·791	·786	·771	·766	10 6	·834	15 33	·707	16
·688	·678	·690	·704	·727	·747	·767	·758	·755	·743	·749	10 5	·814	15 55	·678	17
·664	·655	·678	·694	·715	·709	·722	·722	·718	·717	·726	9 46	·789	15 34	·653	18
·673	·655	·662	·662	·678	·685	·698	·690	·685	·661	·710	9 20	·792	15 42	·653	19
·592	·578	**·572**	·582	·618	·646	·668	·672	·664	·667	**·643**	8 33	·710	16 55	**·570**	20
·640	·632	·626	·636	·666	·678	·713	·717	·725	·716	·672	22 20	·726	3 58	·624	21
·683	·666	·673	·686	·706	·719	·749	·769	·762	·748	·716	21 25	·770	16 0	·664	22
·687	·667	·670	·668	·695	·718	·749	·762	·759	·738	·721	21 55	·763	15 45	·667	23
·681	·663	·679	·683	·715	·743	·792	·798	·794	·777	·733	21 58	·799	15 30	·660	24
·709	·714	·720	·726	·737	·784	·813	·817	·822	·809	·772	10 15	·831	15 10	·709	25
·692	·671	·677	·683	·713	·725	·747	·755	·749	·735	·750	0 25	·807	15 45	·670	26
·673	·652	·672	·672	·705	·712	·739	·736	·742	·723	·716	8 42	·766	15 42	·652	27
·697	·703	·708	·709	·721	·736	·764	·782	·785	·774	·730	22 37	·788	3 45	·680	28
·741	·727	·740	·746	·767	·783	·806	·807	·810	·800	·776	10 14	·834	15 50	·727	29
·755	·745	·755	·755	·781	·805	·816	·804	·800	·791	·795	8 30	·858	15 54	·743	30
29·733	**29·719**	29·726	29·731	29·754	29·767	29·786	29·790	29·792	29·780	29·768					Mean.
—·035	**—·049**	—·042	—·037	—·014	—·001	+·018	+·022	+·024	+·012						Variation.

OCTOBER.

29·722	**29·710**	29·722	29·744	29·758	29·775	29·801	29·795	29·795	29·781	29·777	9 28	29·834	16 15	**29·710**	1
·727	·719	·727	·734	·752	·768	·792	·792	·784	·766	·769	10 10	·841	15 45	·719	2
·727	·726	·726	·734	·759	·772	·807	·815	·809	·798	**·767**	8 40	·816	15 26	·724	3
·775	·758	·766	·764	·789	·803	·828	·828	·831	·812	·801	10 15	·854	15 20	·757	4
·760	·746	·758	·761	·782	·792	·820	·817	·815	·806	·801	10 18	·861	15 28	·745	5
·786	·776	·796	·794	·816	·832	·856	·847	·842	·826	·817	9 22	·861	15 30	·774	6
·805	·796	·807	·811	·827	·837	·852	·853	·856	·839	·837	9 34	·898	15 40	·794	7
·790	·782	·795	·802	·822	·826	·838	·841	·842	·833	·828	10 7	·887	15 25	·782	8
·780	·773	·775	·775	·795	·811	·835	·832	·839	·822	·815	9 40	·868	15 10	·773	9
·803	·791	·804	·813	·831	·845	·863	·870	·873	·866	·831	9 40	·874	3 50	·782	10
·859	·856	·866	·873	·890	·901	·915	·915	·915	·902	·885	9 40	·938	2 18	·835	11
·832	·825	·829	·831	·852	·865	·883	·880	·882	·868	·882	8 33	·949	15 41	·825	12
·845	·838	·841	·842	·865	·869	·896	·895	·895	·883	·874	9 35	·926	16 10	·838	13
·853	·838	·844	·848	·876	·883	·901	·901	·900	·891	·880	8 41	·933	15 25	·838	14
·883	·876	·888	·901	·937	·959	·973	·953	·957	·944	·916	20 15	·975	3 27	·863	15
·889	·878	·891	·889	·928	·932	·957	·941	·940	·918	·930	8 33	·985	15 18	·877	16
·885	·877	·889	·887	·928	·939	·964	·964	·958	·946	·926	8 49	·983	15 8	·875	17
·919	·913	·914	·925	·946	·960	·970	·968	·971	·961	·950	9 37	30·003	15 40	·910	18
·893	·872	·877	·892	·942	·951	·972	·959	·959	·954	·942	9 56	29·992	15 47	·870	19
·920	·910	·923	·939	·947	·963	·988	·988	·979	·965	**·957**	9 45	30·006	15 45	·906	20
·891	·877	·884	·889	·911	·923	·940	·937	·937	·923	·932	9 32	**·009**	15 55	·877	21
·865	·854	·864	·862	·888	·906	·930	·930	·937	·927	·912	8 28	29·970	15 27	·854	22
·877	·867	·874	·879	·904	·923	·949	·947	·946	·937	·922	9 26	·973	15 28	·867	23
·883	·874	·877	·882	·905	·915	·933	·932	·935	·926	·929	9 10	30.002	15 15	·874	24
·887	·875	·891	·903	·919	·932	·952	·954	·954	·946	·935	9 35	·005	15 45	·874	25
·895	·885	·884	·894	·916	·935	·949	·949	·949	·939	·937	9 22	·009	15 37	·885	26
·850	·841	·847	·845	·878	·884	·899	·899	·902	·887	·903	8 37	29·973	15 20	·840	27
·827	·809	·830	·834	·856	·866	·882	·882	·882	·863	·873	8 20	·945	15 13	·807	28
·775	·767	·779	·782	·803	·813	·836	·835	·837	·826	·828	9 20	·892	15 27	·767	29
·788	·782	·795	·805	·823	·836	·850	·850	·861	·851	·829	9 5	·884	15 10	·780	30
·833	·820	·827	·831	·851	·862	·880	·883	·891	·879	·871	9 34	·948	15 49	·819	31
29·833	**29·823**	29·832	29·838	29·861	29·873	29·894	29·892	29·893	29·880	29·873					Mean.
—·040	**—·050**	—·041	—·035	—·012	·000	+·021	+·019	+·020	+·007						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·875	29·873	29·873	29·870	29·887	29·904	29·928	29·944	29·966	29·959	29·937	29·898	29·859	29·817
2	·803	·785	·776	·758	·760	·769	·794	·811	·828	·818	·803	·772	·742	·723
3	·729	·710	·703	·703	·715	·726	·762	·784	·812	·813	·813	·797	·783	·764
4	·873	·858	·858	·853	·871	·888	·912	·932	·963	·966	·972	·944	·915	·887
5	·888	·867	·866	·847	·863	·870	·896	·906	·926	·916	·916	·879	·859	·816
6	·856	·832	·824	·816	·831	·845	·870	·877	·901	·893	·894	·862	·842	·812
7	·862	·843	·836	·834	·842	·854	·881	·901	·922	·922	·916	·895	·865	·830
8	·859	·845	·846	·832	·850	·849	·883	·898	·914	·911	·906	·886	·862	·837
9	·858	·838	·837	·829	·838	·848	·871	·886	·908	·911	·910	·887	·864	·828
10	·848	·828	·828	·831	·839	·857	·888	·905	·932	·931	·920	·896	·869	·849
11	·908	·884	·866	·844	·846	·847	·861	·870	·893	·896	·894	·874	·855	·825
12	·802	·784	·775	·756	·768	·774	·804	·790	·818	·846	·837	·788	·730	·700
13	·668	·662	·659	·656	·666	·689	·723	·741	·748	·751	·746	·727	·713	·692
14	·769	·754	·748	·747	·764	·774	·800	·817	·845	·851	·845	·817	·796	·773
15	·831	·822	·824	·823	·838	·851	·875	·890	·919	·924	·917	·887	·865	·835
16	·908	·896	·900	·900	·919	·935	·971	·991	30·013	30·015	30·006	·971	·935	·902
17	·961	·951	·948	·945	·952	·969	30·000	30·012	·033	·033	·022	·996	·965	·936
18	·953	·937	·932	·932	·939	·949	29·977	29·994	·017	·017	·011	·989	·965	·931
19	·948	·933	·933	·932	·940	·957	·987	30·008	·026	·025	·011	·983	·954	·922
20	·967	·950	·947	·943	·953	·963	·990	·002	·029	·029	·024	·998	·971	·942
21	·969	·953	·950	·949	·962	·974	·996	·014	·036	·036	·024	·998	·971	·939
22	·951	·936	·925	·924	·933	·942	·964	29·977	29·999	·003	·000	·965	·948	·931
23	·945	·929	·928	·916	·929	·931	·957	·971	30·005	·006	29·999	·968	·939	·899
24	·950	·936	·937	·929	·941	·950	·979	30·000	·026	·024	30·020	·991	·975	·952
25	·973	·957	·950	·944	·950	·967	30·004	·027	·050	·054	·050	·994	·999	·969
26	30·005	·990	·978	·969	·972	·986	·006	·020	·043	·046	·040	30·013	·985	·949
27	29·949	·934	·929	·927	·940	·947	29·969	29·987	·018	·019	·015	29·985	·959	·924
28	·962	·950	·945	·947	·947	·961	·990	30·012	·032	·034	·028	30·008	·985	·944
29	30·005	·986	·988	·977	30·000	30·002	30·030	·047	·068	·072	·068	·040	30·024	·998
30	·025	30·005	·991	·992	·001	·019	·031	·051	·073	·073	·069	·038	·011	·988
Mean .	29·897	29·881	29·877	29·871	29·882	29·893	29·920	29·939	29·959	**29·960**	29·954	29·925	29·900	29·870
Variation.	—·002	—·018	—·022	—·028	—·017	—·006	+·021	+·040	+·060	+·061	+·055	+·026	+·001	—·029

DECEMBER.

1	30·017	29·999	29·997	29·989	29·996	29·998	30·015	30·025	30·040	30·042	30·035	30·009	29·986	29·955
2	29·992	·973	·971	·966	·973	·981	·006	·019	·045	·042	·036	·002	·987	·962
3	·980	·960	·953	·941	·940	·945	29·972	29·988	·012	·010	·004	29·973	·950	·923
4	·950	·933	·932	·925	·930	·933	·950	·964	29·993	29·992	29·986	·955	·934	·901
5	·931	·920	·914	·910	·921	·925	·953	·963	·990	·990	·982	·960	·941	·919
6	·955	·940	·942	·942	·951	·964	·995	30·015	30·049	30·049	30·033	·997	·959	·931
7	·957	·939	·930	·921	·942	·954	·982	·000	·035	·032	·022	·992	·962	·924
8	·984	·971	·975	·965	·972	·972	·991	·004	·029	·029	·022	30·001	·971	·941
9	·955	·930	·938	·920	·929	·931	·949	29·964	29·990	29·980	29·967	29·941	·909	·873
10	·898	·978	·876	·868	·874	·885	·912	·922	·949	·948	·947	·918	·901	·883
11	·900	·889	·889	·890	·901	·908	·931	·947	·974	·976	·975	·946	·922	·891
12	·924	·915	·907	·801	·915	·924	·948	·965	·989	·989	·984	·958	·929	·908
13	·917	·904	·899	·884	·890	·896	·917	·940	·974	·978	·969	·938	·915	·888
14	·902	·887	·888	·883	·891	·897	·918	·930	·959	·963	·958	·925	·898	·888
15	·911	·898	·897	·889	·899	·899	·927	·945	·972	·972	·967	·939	·910	·879
16	·915	·901	·897	·890	·896	·899	·923	·939	·967	·967	·956	·926	·894	·868
17	·878	·872	·871	·863	·865	·874	·902	·919	·950	·953	·953	·919	·887	·851
18	·882	·870	·865	·859	·874	·882	·902	·917	·946	·951	·947	·923	·893	·883
19	·902	·888	·890	·883	·884	·893	·910	·926	·953	·959	·967	·946	·924	·903
20	·953	·947	·945	·945	·958	·971	·999	30·016	30·045	30·051	30·043	30·007	·972	·958
21	·980	·970	·961	·948	·950	·960	·984	29·998	·027	·026	·014	29·986	·953	·920
22	·952	·952	·947	·944	·947	·957	·983	30·004	·022	·027	·016	·990	·968	·942
23	·968	·950	·951	·951	·958	·961	·979	29·995	·018	·018	·011	·977	·954	·923
24	·951	·933	·936	·931	·941	·944	·966	·980	29·999	29·996	29·988	·960	·928	·910
25	·948	·932	·930	·930	·942	·948	·972	·990	30·022	30·022	30·016	·984	·956	·925
26	·952	·938	·936	·921	947	·955	·981	30·005	·037	·041	·040	300·10	·984	·973
27	30·005	·990	·975	·966	·979	·976	·999	·011	·035	·029	·025	29·996	·961	·927
28	29·954	·941	·937	·932	·925	·941	·962	29·976	29·995	29·988	29·974	·945	·914	·877
29	·910	·893	·895	·891	·909	·913	·936	·955	·997	·996	·988	·966	·945	·914
30	·964	·950	·948	·938	·952	·960	·990	30·013	30·035	30·041	30·039	30·011	·987	·968
31	30·016	30·006	30·004	30·001	30·007	30·012	30·036	·059	·079	·079	·077	·051	30·019	·989
Mean .	29·945	29·931	29·929	29·922	29·931	29·937	29·961	29·977	**30·004**	30·004	29·998	29·969	29·942	29·916
Variation.	—·001	—·015	—·017	—·024	—·015	—·009	+·015	+·031	+·058	+·058	+·052	+·023	—·004	—·030

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·796	29·785	29·789	29·785	29·799	29·811	29·824	29·827	29·823	29·808	29·860	8 40	29·966	15 38	29·784	1
·697	·694	·700	·703	·721	·730	·750	·753	·750	·737	·757	8 32	·829	15 27	·693	2
·767	·764	·780	·789	·820	·840	·869	·870	·881	·875	·786	22 23	·883	2 58	·702	3
·872	·861	·863	·863	·890	·900	·917	·917	·922	·899	·900	10 15	·973	3 15	·845	4
·807	·781	·804	·813	·833	·848	·869	·869	·875	·859	·861	8 44	·927	16 40	·778	5
·787	·773	·784	·794	·834	·846	·876	·879	·887	·860	·845	8 41	·902	15 40	·772	6
·820	·792	·816	·827	·853	·868	·884	·882	·880	·868	·862	9 26	·923	15 40	·790	7
·830	·820	·825	·832	·858	·879	·897	·894	·891	·871	·866	8 59	·916	15 42	·820	8
·815	·806	·815	·814	·841	·851	·864	·863	·860	·853	·854	9 33	·912	15 20	·804	9
·831	·817	·814	·818	·848	·854	·865	·875	·920	·917	·866	8 45	·933	16 58	·814	10
·803	·806	·824	·834	·856	·854	·855	·851	·850	·808	·854	0 10	·910	14 43	·802	11
·681	·697	·686	·669	·637	·628	**·613**	·676	·679	·671	·738	9 30	·846	20 35	**·612**	12
·681	·685	·701	·715	·737	·753	·772	·775	·785	·774	·717	22 17	·788	3 25	·654	13
·758	·755	·774	·780	·802	·815	·836	·838	·845	·835	·797	9 20	.852	3 7	·747	14
·823	·819	·839	·839	·863	·879	·902	·905	·919	·906	·866	9 40	·926	15 22	·818	15
·890	·880	·890	·895	·922	·940	·968	·971	·972	·960	·940	9 36	30·017	15 30	·879	16
·921	·916	·920	·926	·947	·965	·980	·979	·979	·963	·967	9 17	·035	15 42	·915	17
·917	·908	·919	·927	·952	·963	·979	·976	·978	·961	·959	8 58	·018	15 50	·908	18
·911	·901	·908	·919	·944	·964	·987	·983	·979	·971	·959	8 40	·026	15 42	·900	19
·920	·914	·928	·927	·958	·972	·992	·991	·998	·973	·970	9 45	·031	15 32	·914	20
·917	·906	·914	·923	·953	·968	·984	·985	·983	·963	·969	9 18	·037	15 45	·905	21
·908	·896	·911	·910	·928	·942	·970	·970	·970	·954	·948	9 22	·005	15 35	·894	22
·887	·874	·885	·893	·922	·942	·966	·968	·963	·951	·941	9 32	·007	15 35	·874	23
·934	·926	·931	·940	·959	·972	·994	·996	·992	·980	·968	8 46	·028	15 45	·926	24
·954	·943	·948	·955	·978	·996	30·021	30·022	30·028	30·009	·989	9 45	·056	3 32	·942	25
·920	·906	·915	·923	·945	·950	29·972	29·967	29·970	29·950	·976	9 37	·047	15 45	·904	26
·906	·899	·902	·909	·933	·948	·968	·978	·981	·969	·954	9 8	·020	15 26	·898	27
·933	·913	·925	·936	·966	·987	30·010	30·010	30·023	30·009	·977	9 36	·036	15 22	·912	28
·977	·970	·973	·988	30·012	30·038	·062	·064	·059	·039	**30·020**	9 50	·073	15 32	·969	29
·965	·954	·964	·974	29·996	·010	·034	·036	·036	·027	·015	9 7	**·075**	15 48	·954	30
29·854	**29·845**	29·855	29·861	29·884	29·897	29·916	29·919	29·923	29·907	29·899					Mean.
—·045	—·**054**	—·044	—·038	—·015	—·002	+·017	+·020	+·024	+·008						Variation.

DECEMBER.

29·946	29·939	29·953	29·958	29·988	30·002	30·022	30·020	30·016	30·000	29·999	9 28	30·044	15 17	29·938	1
·951	·949	·951	·958	·979	29·993	·005	·006	·005	29·995	·989	8 45	·045	15 10	·949	2
·915	·914	·932	·938	·959	·972	29·990	29·978	29·975	·958	·962	8 45	·014	15 37	·914	3
·881	·871	·882	·882	·914	·924	·958	·957	·964	·944	·936	8 47	29·995	15 40	·870	4
·895	·894	·904	·918	·941	·951	·966	·966	·964	·951	·940	9 22	·991	15 37	·893	5
·902	·890	·901	·912	·943	·950	·979	·973	·973	·945	·962	9 15	30·050	15 47	·890	6
·911	·907	·916	·924	·955	·969	·990	·993	30·000	·983	·964	8 40	·038	15 30	·907	7
·915	·892	·902	·904	·928	·936	·964	·964	29·964	·945	·964	9 12	·031	15 34	·891	8
·863	·853	·874	·875	·886	·904	·924	·913	·925	·908	·921	8 40	29·992	15 42	·850	9
·869	·863	·871	·875	·895	·903	·917	·917	·915	·901	·899	8 40	·950	15 15	·862	10
·876	·872	·880	·888	·912	·924	·938	·939	·940	·929	·918	9 0	·978	15 20	·872	11
·882	·869	·878	·875	·896	·909	·934	·931	·936	·921	·924	8 58	·990	15 20	·869	12
·880	·873	·876	·880	·900	·910	·929	·924	·927	·909	·913	9 10	·979	15 10	·873	13
·872	·862	·872	·880	·904	·917	·936	·936	·930	·916	·909	9 52	·963	15 18	·861	14
·867	·861	·869	·874	·903	·920	·942	·940	·933	·917	·914	9 0	·974	15 20	·860	15
·844	**·827**	·839	·842	·868	·882	·903	·901	·901	·886	·897	8 55	·968	15 47	**·826**	16
·840	·836	·839	·848	·871	·889	·901	·901	·898	·880	**·886**	9 22	·955	15 25	·835	17
·871	·867	·872	·877	·900	·912	·923	·923	·922	·906	·899	9 36	·953	3 22	·857	18
·892	·877	·889	·897	·921	·941	·962	·961	·963	·952	·920	10 30	·969	15 45	·877	19
·939	·934	·943	·948	·970	·980	30·007	30·006	30·003	·987	·980	9 34	30·054	15 35	·933	20
·901	·898	·904	·913	·935	·948	29·970	29·969	29·963	·951	·960	8 35	·029	15 3	·897	21
·929	·919	·937	·943	·965	·978	30·003	·998	·996	·973	·971	9 20	·029	15 40	·919	22
·911	·905	·915	·921	·946	·957	29·976	·976	·970	·955	·960	9 10	·019	15 35	·903	23
·895	·891	·912	·921	·945	·961	·987	·985	·979	·956	·950	8 40	·001	15 25	·890	24
·915	·910	·919	·919	·946	·963	·979	·974	·972	·954	·957	9 30	·023	15 22	·909	25
·968	·963	·974	·978	·998	30·010	30·030	30·023	30·024	30·007	·988	9 25	·044	3 20	·930	26
·910	·906	·918	·923	·943	29·954	29·978	29·978	29·976	29·961	·972	8 20	·036	15 40	·904	27
·858	·953	·867	·874	·901	·914	·931	·926	·928	·913	·930	9 0	29·995	15 15	·852	28
·907	·901	·903	·913	·949	·964	·986	·984	·981	·969	·940	9 0	·999	3 5	·887	29
·955	·942	·957	·964	·992	30·007	30·027	30·027	30·031	30·016	·988	9 0	30·044	4 0	·936	30
·974	·964	·972	·976	·998	·022	·036	·036	·038	·037	**30·020**	8 50	**·082**	16 0	·952	31
29·901	**29·897**	29·904	29·910	29·934	29·947	29·968	29·965	29·965	29·949	29·946					Mean.
—·045	—·**049**	—·042	—·036	—·012	+·001	+·022	+·019	+·019	+·003						Variation.

RAINFALL (IN INCHES), 1927.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	0·01	0·01	..	..	..	..
6	..	..	0·03	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	0·02	..	..	..	..	..	..	..	..	..	..
8	..	..	..	0·03	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	0·01	..	..	..
12	..	..	..	0·19	..	0·46	..	..	..	0·01	..	..	..	..
13	..	0·06	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	0·05	..	..	..	0·11	1·52	1·74	1·01	0·02	0·11
15	0·28	..	..	0·02	..	..	..	0·02	0·11	0·11	0·07	0·06	0·64	0·60
16	0·19	1·25	0·76	0·39	0·62	1·31	0·71	0·56	0·07	0·07	0·02	0·03	..	0·05
17	..	..	..	..	..	0·01	..	0·47	0·27	0·05	0·54	1·41	0·51	0·10
18	0·07	..	..	..	..	0·07	0·02	..	..	0·10	0·81	0·18	0·09	0·06
19	0·02	0·02	..	..	0·09	0·03	..	..	0·02	0·04	..	..	..	..
20	..	..	0·20	0·02	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	0·17	0·05	..	..	..	..	..	..
23	0·25	0·03	0·02	0·02	0·31	0·01	..	0·10	..	..	..	0·02	..	..
24	..	..	..	0·01	..	..	..	..	..	..	..	..	..	..
25	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	0·02	0·01	..	..	..	..
28	0·03	0·02	..	0·01	0·09	0·21	..	0·09	0·05	0·02	..	..	..	..
29	..	..	0·78	0·22	0·09	0·02	..	..	..	..	..	..	..	0·51
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	0·85	1·38	1·79	0·93	1·25	2·12	0·90	1·29	0·66	1·94	3·19	2·71	1·26	1·43

JULY.

1	0·05	0·03	..	...	..	0·01	..	..	..	..	..	..	..	0·02
2	0·13	0·49	0·10	0·07	0·21	0·10	..	..	0·01	0·04	0·09	..	..	..
3	..	0·07	..	..	..	0·02	..	..	0·22	0·34	0·02	..	..	0·11
4	0·04	0·02	0·09	..	..	0·01	..	0·02	..	0·02	0·01	..	..	0·01
5	..	..	..	0·02	0·06	0·05	0·03	0·11	0·26	0·01	0·17	0·01	..	0·01
6	..	0·02	0·02	..	..	..	..	0·01	0·19	0·01	0·05	0·05	..	..
7	..	0·01	..	0·04	..	0·02	0·06	0·02	..	0·01	..	..	..	0·02
8	..	0·02	0·02	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	0·01	..	0·01	..	0·01	..	0·01	..	..	..	..
10	..	..	..	..	..	..	..	..	..	0·21	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	0·03	..	..	0·01	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	0·07
14	..	..	..	..	..	0·01	..	0·02	..	0·01	..	..	..	0·01
15	..	0·03	..	0·01	..	..	..	0·01	..	..	..	..	..	..
16	..	..	0·04	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	0·01	..	..	..	0·02	..
18	..	..	..	..	..	..	..	..	0·08	0·03	0·01	0·12	..	0·01
19	..	..	..	..	..	0·03	0·03	0·01	..	..	..	..	..	..
20	..	..	..	..	..	..	0·06	..	..	0·01	..	..	..	..
21	0·06	0·01	..	..	..	0·01	..	..	0·30	0·07	0·09	0·05	..	0·01
22	..	0·02	..	0·01	..	0·04	..	..	..	0·24	0·06	0·06	0·27	0·03
23	0·01	..	..	0·02	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	0·01	0·04	0·05	..	..
25	..	..	0·04	..	..	0·01	..	..	..	0·01	..	..	..	0·02
26	0·01	0·01	..	0·02	..	0·01	..	..	..	0·06	0·04	..	0·11	0·01
27	..	..	..	..	..	..	..	0·03	..	..	..	..	..	0·04
28	0·08	..	..	0·01	..	..	..	..	0·02	..	..	..	..	..
29	0·04	0·01	..	..	..	..	..	..	..	..	..	..	0·03	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	0·01	..	0·04	..	0·01	..	..	..	0·01	0·08	0·02	..	..
Total ..	0·45	0·75	0·31	0·26	0·27	0·34	0·18	0·24	1·09	1·10	0·66	0·36	0·43	0·37

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Hours. 14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	Daily Total.	Maximum fall in one hour.	Time of occurrence. H. to H.	Daily* total by Newman. Rain gauge	Date.
..	..	..	..	..	..	..	..	..	..	..	..	..	0·00	1
..	..	..	..	..	..	..	..	..	..	..	..	..	0·00	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	0·03	..	..	0·03	0·03	21 22	0·03	4
..	..	..	..	..	..	..	0·06	..	..	0·08	0·06	21 22	0·09	5
..	..	..	..	..	..	..	..	..	0·03	0·06	0·03	2 3	0·06	6
..	..	..	..	..	..	..	..	..	..	0·02	0·02	3 4	0·02	7
..	..	..	..	..	..	..	..	..	..	0·03	0·03	3 4	0·03	8
..	..	..	..	..	..	..	..	0·02	0·01	0·03	0·02	22 23	0·04	9
..	..	..	..	..	..	0·03	0·09	..	..	0·12	0·09	21 22	0·13	10
..	0·01	..	..	..	..	..	0·01	..	..	0·03	0·01	10 11	0·03	11
..	..	..	..	..	..	..	..	0·05	..	0·71	0·46	5 6	0·67	12
..	..	..	..	..	..	..	..	..	..	0·06	0·06	1 2	0·11	13
..	0·04	..	..	..	0·01	0·49	0·04	0·12	0·09	5·35	**1·74**	10 11	5·68	14
..	0·06	0·34	0·02	0·14	0·11	..	..	0·08	0·26	2.92	0·64	12 13	2·91	15
..	0·02	..	..	..	0·28	..	0·49	0·05	0·01	**6·38**	1·31	5 6	**7·10**	16
0·11	0·12	0·02	0·10	0·02	0·01	0·01	0·08	0·02	..	3·85	1·41	11 12	4·12	17
0·94	0·91	0 44	0·26	0·05	0·02	0 13	0·03	..	0·03	4·21	0·94	14 15	4·23	18
..	..	..	..	..	..	..	..	..	..	0·22	0·09	4 5	0·23	19
..	..	..	..	..	..	..	0·01	0·06	0·02	0·31	0·20	2 3	0·30	20
0·40	0·07	..	0·17	..	..	..	..	0·11	0·02	0·77	0·40	14 15	0·80	21
..	..	0·02	..	..	..	0·04	0·05	..	..	0·33	0·17	6 7	0·34	22
0·02	0·01	..	..	..	..	..	0·01	..	..	0·80	0·31	4 5	0·83	23
..	..	0·01	..	..	..	0·01	..	..	..	0·03	0·01	3 4	0·03	24
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1	0·01	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	26
..	..	..	..	..	0·01	..	1·03	..	..	0·07	0·03	21 22	0·08	27
..	..	..	0·02	..	0·01	..	0·01	..	..	0·56	0·21	5 6	0·62	28
0·18	0·61	0·40	0·49	0·50	0·13	..	0·01	..	..	3·94	0·78	2 3	4·03	29
..	..	..	..	0·01	..	0·74	0·82	0·08	1·26	2·91	1·26	23 24	3·00	30
1·65	1·85	1·23	1·06	0·72	0·58	1·45	1·77	0·59	1·73	34.33	..	..	35·52	Total

JULY.

..	..	..	0·01	0·03	..	0·02	0·01	..	0·01	0·19	0·15	0 1	0·20	1
..	0·12	..	0·57	..	0·16	0·20	0·09	..	0·19	**2·57**	0·57	17 18	**2·63**	2
..	0 01	..	..	..	..	..	..	..	..	0·79	0·34	9 10	0·80	3
0·04	0·05	..	..	..	..	..	0·37	0·86	..	1·54	**0·86**	22 23	1·54	4
..	..	..	..	..	..	0·04	0·15	0·11	0·12	1·1	0·26	8 9	1·19	5
0·02	0·01	..	0·04	..	..	..	..	..	0·01	0·43	0·19	8 9	0·45	6
..	0·08	..	..	..	..	..	0·03	..	..	0·29	0·08	15 16	0·30	7
..	0·07	..	..	..	..	..	0·08	..	..	0.19	0·08	21 2	0·20	8
..	0·01	..	0 03	..	0 01	..	0·04	0·04	0·03	0·20	0·04	21 22	0·20	9
..	..	..	0·07	0·03	0·01	0·03	..	0·06	0·01	0·42	0·21	9 10	0·43	10
..	..	..	0·03	..	..	..	..	..	..	0·03	0·03	17 18	0·03	11
..	..	0·14	0·01	..	..	..	..	..	..	0·19	0·14	16 17	0·18	12
..	..	..	..	..	..	..	..	..	..	0·07	0·07	13 14	0·07	13
..	..	..	..	..	0·01	..	..	..	..	0·06	0·02	7 8	0·07	14
0·03	..	..	..	..	..	..	..	..	..	0·08	0·03	1 2	0·09	15
..	..	..	..	..	..	..	..	..	..	0·04	0·04	2 3	0·04	16
..	0·06	..	0·01	..	0·01	0·05	0·02	..	..	0·18	0·03	15 16	0·20	17
..	..	..	..	..	..	..	..	..	0·06	0·31	0·12	11 12	0·34	18
..	..	..	..	..	0 01	0·04	0·04	..	..	0·16	0·04	20 21	0·15	19
..	0·03	..	..	..	0·06	..	0·20	0·07	0 39	0·82	0·39	23 24	0·85	20
..	..	..	..	..	..	..	..	..	0·08	0·68	0·30	8 9	0·68	21
..	..	..	..	..	..	..	0·02	..	0·01	0·76	0·27	12 13	0·82	22
..	0·02	..	0·02	..	0·06	..	..	..	..	0·13	0·06	19 20	0·16	23
0·01	0·34	0·01	0·02	0·03	0·01	0·06	..	..	0·02	0·60	0·34	15 16	0·61	24
..	0·01	..	..	0·02	0·01	..	..	..	..	0·12	0·04	2 3	0·12	25
..	0·03	0·06	..	..	..	..	..	0·01	0·01	0·38	0·11	12 13	0·39	26
0·05	0·01	..	0·18	..	0·01	0·01	0 03	0·05	0·01	0·42	0.18	17 18	0·48	27
0·09	0·02	..	0·02	0·02	..	0·14	0·01	0·04	0·01	0·46	0·14	20 21	0·47	28
..	..	..	0·01	..	..	..	..	..	..	0·09	0·04	0 1	0·08	29
..	..	..	0·02	..	..	..	..	..	..	0·02	0·02	17 18	0·02	30
..	..	..	0·09	..	..	..	0·02	..	..	0·28	0·09	17 18	0·29	31
0·24	0·87	0·21	1·13	0·13	0·36	0·59	1·11	1·24	0·96	13·65	..	..	14·08	Total.

* Adopted as the standard instrument in the observatory since 1845.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	0·14	..	..	0·10	0·02	..	..	..	0·01
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	0·01	0·01	..	0·01	..	..	..	..	..	..
4	..	..	..	0·02	..	0·01	..	..	0·06	0·03	..	0·02	0·11	..
5	0·05	0·08	0·04	..	..	..	..	0·04	..	0·02	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	0·01	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	0·02	0·12	0·03	..	..	..	..
10	0·11	0·01	..	..	..	..	..	..	..	..	..	..	..	..
11	0·05	0·03	..	..	..	0·01	..	..	..	..	..	..	0·03	0·02
12	..	..	..	..	..	..	..	0·03	..	0·05	..	..	..	0·01
13	..	0·05	..	..	..	0·01	..	..	..	..	..	..	..	..
14	..	..	..	0·01	..	..	0·03	0·12	..	..	..	0·03	..	..
15	..	0·01	..	..	..	..	..	0·15	..	0·01	..	..	..	..
16	..	..	..	0·11	..	..	..	0·08	..	0·13	..	0·01	..	0·12
17	..	..	..	0·01	..	..	0·01	0·01	..	..	..	0·20	..	0·02
18	..	0·02	0·02	0·04	..	..	..	..	..	0·02	..	..	..	..
19	..	0·01	0·04	..	..	..	..	..	..	..	0·04	0·01	..	..
20	..	..	..	0 01	..	..	..	0·01	..	..	..	0·06	..	0·02
21	..	..	0·02	..	0·02	0·02	..	..	..	..	0 06	0·01	0·05	0·02
22	..	0·01	0·03	0·02	0·08	0·02	..	..	0·01	0·06	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	0·02	..	0·03	0·01	..	0·01	..	..	..	..	..	..	..	..
25	0·01	0·02	..	..	..	..	..	..	..	0·02	0 01	0·07	..	..
26	..	..	..	..	..	..	0·08	0·03	..	0·01	..	..	..	..
27	..	..	..	..	..	0·01	0·03	0·01	..	..	..	0·01	..	..
28	..	..	..	..	..	0·07	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	0·04	..	..	..	..	0·06
30	..	..	0·01	..	..	..	..	..	..	..	..	0·01	0·02	..
31	..	..	0·19	0·01	..	..	0·05	0·01	..	..	..	..	0·01	0·01
Total ..	0·14	0·24	0·38	0·24	0·12	0·31	0·20	0·52	0·33	0·40	0·11	0·43	0·22	0·29

SEPTEMBER.

1	..	0·08	0·01	..	..	0·06	..	0·01	0·02	0·04	..	..	..	0·07
2	..	..	..	..	..	..	..	..	..	..	..	0·03	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	0·02
4	..	..	..	..	..	..	..	0·01	..	0·01	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	0·02	0·04	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	0·02	0·01	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	0·34	0·01	..	..	..	..	..	..	..	..
19	..	..	..	0·03	..	0·03	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	0·01	0·01	..	..	..	..	..
21	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	0·01	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	0·05	0·18	0·02	0·01	..	..	..	..	..	..	..	..	..	..
27	..	0·55	0·15	0·01	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	0·04	0·20	0·09	0·01	..	0·40	..	..	..	..
29	..	0·02	..	..	..	..	..	..	..	..	..	..	..	..
30	0·03	0·02	..	..	..	..	..	..	..	..	..	..	..	..
Total .	0·11	0·86	0·18	0·05	0·38	0·30	0·09	0·04	0·05	0·49	..	0·03	0·01	0·09

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman Raingauge	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	..	..	..	..	..	..	..	..	..	0·27	0·14	5 6	1·27	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	0·03	0·01	4 5	0·03	3
..	..	0·01	0·01	..	..	..	..	..	..	0·27	0·11	12 13	0·30	4
..	..	..	..	..	..	..	..	..	..	0·23	0·08	1 2	0·23	5
..	..	..	0·01	..	..	..	..	..	0·04	0·05	0·04	23 24	0·05	6
..	0·02	..	..	..	..	0·05	..	..	0·12	0·19	0·12	23 24	0·21	7
..	0·01	..	..	..	..	0·16	0·01	..	..	0·19	0·16	20 21	0·18	8
..	..	..	..	..	..	..	..	..	..	0·17	0·12	8 9	0·18	9
0·11	0·03	..	..	..	..	..	0·02	..	..	0·18	0·11	14 15	0·18	10
..	0·01	..	..	..	..	..	0·02	0·03	0·02	0·22	0·05	0 1	0·23	11
..	0·01	..	..	..	..	0.01	0·08	..	0·04	0·23	0·08	21 22	0·24	12
..	..	..	..	0·01	0·02	..	..	..	..	0·09	0·05	1 2	0·09	13
0·01	..	..	..	..	..	..	..	..	0·05	0·25	0·12	7 8	0·24	14
..	..	..	0·02	..	..	..	..	..	..	0·19	0·15	7 8	0·19	15
..	..	..	..	..	..	..	..	..	..	0·45	0·13	9 10	0·45	16
..	..	..	..	..	..	..	..	..	..	0·25	**0·20**	11 12	0·25	17
..	..	..	..	..	..	0·02	..	0·02	0·01	0·15	0·04	3 4	0·15	18
..	..	..	..	..	0·15	..	..	0·08	0·02	0·35	0·15	19 20	0·37	19
..	..	..	..	..	..	..	0·06	0 02	..	0·18	0·06	11 12	0 18	20
0·01	0·10	..	..	..	..	0·03	0·01	..	0·05	0·40	0·10	15 16	0·40	21
..	..	0·01	0·01	0·04	0·11	..	..	0·02	0·14	**0·56**	0·14	23 24	**0·57**	22
0·01	..	..	..	..	..	..	..	..	..	0·01	0·01	14 15	0·01	23
..	0·04	0·08	0·12	..	..	..	..	..	..	0·31	0·08	16 17	0·35	24
..	..	..	..	..	0·01	0·01	..	..	..	0·15	0·07	11 12	0·16	25
0·03	..	..	..	..	..	..	..	..	..	0·15	0·08	6 7	0·15	26
..	..	0·02	0·01	..	0·07	..	..	..	..	0·16	0·07	19 20	0·17	27
..	..	..	0·02	..	..	..	..	..	..	0·09	0·07	5 6	0·09	28
..	0·02	..	0·01	..	..	..	..	..	..	0·13	0·06	13 14	0·14	29
..	0·04	..	0·01	..	..	..	0·11	..	..	0·20	0·11	21 22	0·20	30
..	..	..	..	..	..	0·02	..	0·03	..	0·33	0·19	2 3	0·33	31
0·17	0·28	0·12	0·22	0·05	0·36	0·30	0·31	0·20	0·49	6·43	..	..	6·59	Total.

SEPTEMBER.

..	0·03	0·02	..	..	..	..	..	..	..	0·34	0·08	1 2	0·32	1
..	..	..	..	..	0·01	..	..	..	..	0·04	0·03	11 12	0·05	2
..	..	..	..	..	0·01	..	..	..	..	0·03	0·02	13 14	0·02	3
..	..	..	..	..	..	..	0·02	..	..	0·04	0·02	21 22	0·04	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
..	..	..	..	..	..	..	0·01	..	..	0·01	0·01	21 22	0·01	7
..	..	..	..	0·06	0·02	..	0·01	..	..	0·15	0·06	18 19	0·17	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	..	..	..	..	..	..	0·05	0·05	0·05	23 24	0·05	12
..	..	..	..	..	..	..	..	..	..	0·03	0·02	0 1	0·05	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
..	..	..	..	..	..	..	..	..	..	0·35	0·34	4 5	0·36	18
..	0·02	0·01	..	..	..	..	0·01	0·02	..	0·12	0·03	5 6	0·12	19
..	..	0·01	..	..	..	..	0·01	0·10	..	0·14	0·10	22 23	0·11	20
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1	0·02	21
..	..	..	0·01	..	0·03	..	0·29	..	..	0·34	0·29	21 22	0·35	22
..	..	..	..	..	0·01	..	..	..	..	0·01	0·01	19 20	0·01	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	25
..	..	..	..	..	..	..	..	..	..	0·26	0·18	1 2	0·26	26
..	..	..	0·07	0·02	..	..	0·01	..	0·01	0·82	0·55	1 2	0·86	27
..	0·93	..	0·01	..	..	0·15	0·42	0·07	0·02	**2·34**	**0·93**	15 16	**2·37**	28
..	..	..	..	..	0·01	..	..	..	..	0·03	0·02	1 2	0·03	29
..	..	..	..	..	..	..	..	..	0·05	0·10	0·05	23 24	0·10	30
..	**0·98**	0·04	0·09	0·08	0·09	0·15	0·78	0·19	0·13	5·21	..	..	5·30	Total.

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES) 1927.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PLUVIOGRAPH RECORDS.)

OCTOBER.

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	0·69	0·40	0·09	0·05	..	0·01	..	..	..	0·01	..	..	..	0·03
2	..	0·25	0·02	1·32	0·19	0·03	..	..	..	..	..	..	..	0·01
3	..	0·01	0·01	..	..	0·01	..	..	..	..	..	0·01	..	..
4	0·43	0·04	0·03	..	..	0·01	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	0·09	0·01	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	0·02	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	1·52	0·80	0·05	..	..	..	..	..	..	..	..	..	..
11	..	0·23	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17†	..	..	..	..	..	..	..	0·01	..	0·01	..	..	..	..
Total .	1·21	2·46	0·95	1·44	0·19	0·06	..	0·01	..	0·02	..	0·01	..	0·04

NOVEMBER.

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
10†	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	0·02	0·04	..	..	..	..	..	0·01	..	0·01	..	0·01	..	0·04
12	..	..	..	..	..	0·02	0·03	0·02	..	0·21	0·11	0·27	..	0·18
13	0·22	0·08	..	0·01	..	..	..	..	..	..	..	..	..	..
Total .	0·24	0·12	..	0·01	..	0·02	0·03	0·03	..	0·22	0·11	0·28	..	0·22

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PLUVIOGRAPH RECORDS.)

OCTOBER.

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman Raingauge.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24					
											H. to H.			
..	0·06	..	0·10	0·05	0·03	..	..	..	..	1·52	0·60	0 1	1·57	1
0·12	0·01	0·21	0·03	..	..	..	..	..	..	2·19	1·32	3 4	2·21	2
..	..	..	..	..	0·01	..	..	..	0·03	0·08	0 03	23 24	0·08	3
..	0·02	..	..	..	..	..	..	..	..	0·53	0·43	0 1	0·55	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
..	..	..	..	..	..	..	..	..	..	0·10	0 09	0 1	0·10	7
..	..	..	..	..	..	..	..	..	..	0·02	0 02	3 4	0·03	8
..	..	..	..	..	..	0 02	0·01	..	..	0 03	0·02	20 21	0·03	9
..	..	..	..	..	..	..	..	..	..	2·37	1·52	1 2	2 44	10
..	..	..	..	..	..	..	..	..	..	0·23	0·23	1 2	0·22	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	16
..	..	..	..	..	..	..	..	..	..	0·02	0·01	7 8	0 02	17
0·12	0·09	0·21	0·13	0·05	0·04	0·02	0 01	..	0·03	7·09	..	..	7·25	

† No rainfall occurred from the 18th to the 31st October.

NOVEMBER.

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24					
												H. to H.		
..	..	..	..	..	..	..	..	0·05	0·11	0·16	0·11	23 24	0·18	10†
..	0·01	0·01	0·03	0·03	0·02	0·01	0·07	..	0·03	0·34	0·07	21 22	0·35	11
0·15	0·31	0·17	0·22	0·07	0·27	0·93	1·25	0·25	0·05	4·51	1·25	21 22	4·61	12
..	..	..	0·01	..	0·01	..	0·01	..	..	0·34	0·22	0 1	0·34	13
0 15	0·32	0 18	0·26	0·10	0 30	0·94	1·33	0·30	0·19	5·35	..	..	5·48	Total.

* Adopted as the standard instrument in the Observatory since 1845.

† No rainfall occurred on the days of the month not given in this table.

NOTE.—There was a fall of 0·04″ of rain on the 21st February between 15th and 16th, 0·03″ on the 8th March between 23h. and midnight, and 0·09″ on the 19th December between 0 h and 1 h.

The months of January, April, and May were dry.

Total fall of rain in the year was 72 22″ by Pluviograph and 74·38″ by Newman; the difference is due to the difference in heights of the receiving funnels of the two instruments.

Total number of rainy days in the year was 84, according to Pluviograph and 85 according to Newman, assuming 'rainy day' to be one on which a tenth of an inch or upwards has fallen.

The greatest fall of rain during a day in the year, that of 16th June, was 6·88″ by Pluviograph and 7·10″ by Newman.

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.) (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	2	4	3	4	5	5	5	4	4	5	5	1	6	9	10
2	3	2	5	5	5	5	7	4	1	2	1	7	13	13	13
3	8	5	5	5	2	2	2	0	2	7	9	10	13	14	13
4	5	5	5	5	9	8	5	4	2	4	7	9	10	13	14
5	3	6	5	4	4	5	5	3	5	4	7	8	12	13	14
6	5	5	6	7	8	7	6	5	5	4	5	9	13	13	14
7	14	13	9	7	7	6	6	6	6	9	7	7	9	11	11
8	9	6	6	5	5	6	6	7	8	6	5	6	6	7	5
9	6	4	3	3	5	7	4	3	2	3	5	7	11	11	13
10	8	10	4	3	5	6	7	9	8	7	4	4	7	9	10
11	7	7	5	7	7	5	5	4	1	1	4	7	8	8	9
12	10	6	4	8	8	7	5	5	4	4	4	2	5	8	10
13	2	2	2	2	5	5	3	3	5	4	2	1	3	6	8
14	4	4	3	2	3	2	1	1	3	4	1	5	10	11	12
15	3	1	1	3	6	9	9	4	3	3	1	5	7	8	11
16	4	5	4	3	8	9	9	9	4	4	3	10	17	17	19
17	7	7	7	3	3	5	5	6	7	7	4	3	5	7	7
18	7	6	7	8	6	7	6	7	5	5	6	4	5	5	6
19	3	2	1	2	5	7	8	9	8	2	4	5	6	6	6
20	3	3	5	3	3	2	3	3	3	7	9	11	13	15	18
21	5	5	5	2	1	1	2	0	3	2	5	11	12	13	13
22	5	3	4	3	4	5	5	6	6	5	4	5	7	10	11
23	7	6	8	6	5	5	5	4	3	4	10	13	17	20	21
24	7	8	9	10	6	7	6	5	3	3	2	7	11	12	13
25	5	3	5	6	6	5	6	3	2	4	1	5	8	10	12
26	2	3	5	5	5	4	3	2	1	2	11	9	8	10	11
27	6	4	3	3	5	5	4	4	4	3	2	5	10	9	10
28	7	5	3	3	3	4	6	5	4	3	2	3	8	9	11
29	2	4	5	1	4	3	1	1	3	1	1	5	12	13	13
30	5	3	4	8	6	3	2	1	1	1	1	4	7	10	12
31	2	2	3	3	6	4	7	3	3	4	3	2	5	10	13
Mean ..	5·4	4·8	4·6	4·5	5·2	5·2	5·0	4·2	3·8	4·0	4·4	6·1	9·2	10·6	11·7

FEBRUARY.

1	4	3	3	5	6	5	6	4	2	5	2	3	6	8	10
2	7	5	3	2	3	3	3	2	3	3	0	3	7	8	9
3	1	1	3	4	4	6	3	1	1	2	3	8	13	11	15
4	9	8	9	15	17	15	13	10	2	6	10	13	12	17	16
5	8	7	6	7	10	7	6	3	4	5	11	14	16	16	12
6	7	11	14	15	11	11	10	6	3	1	10	9	12	15	16
7	10	9	11	11	8	7	8	6	6	5	2	5	10	13	11
8	6	5	8	8	7	5	4	4	5	7	3	10	14	11	10
9	10	14	12	9	8	7	5	4	4	8	10	11	10	15	17
10	10	10	6	7	8	8	8	7	6	7	9	10	16	21	21
11	9	8	11	7	7	4	3	3	3	4	1	7	10	12	15
12	5	7	4	1	2	2	1	1	3	3	2	5	8	9	10
13	2	2	3	6	4	2	1	4	6	7	6	5	7	10	9
14	5	4	4	5	7	8	7	8	7	6	1	5	6	7	7
15	3	6	8	9	8	8	9	9	11	11	3	4	5	6	7
16	6	5	3	2	5	7	6	6	6	5	3	4	7	8	11
17	10	9	10	8	9	8	8	10	12	13	15	14	18	19	17
18	18	15	16	16	14	8	10	10	9	10	14	16	19	20	22
19	8	7	10	7	8	8	8	3	4	5	3	3	5	11	11
20	7	6	5	5	8	3	3	3	6	4	6	4	6	7	9
21	7	9	10	13	10	7	7	9	11	10	8	13	14	14	13
22	10	12	11	11	10	7	6	4	4	7	17	19	20	20	20
23	7	7	10	12	13	13	12	12	15	14	17	19	21	24	22
24	8	7	8	8	9	9	7	6	6	9	11	10	7	14	18
25	9	15	12	9	8	9	10	12	12	12	9	7	9	11	12
26	2	5	2	5	7	12	11	7	7	6	11	8	7	8	9
27	3	1	1	6	4	5	6	7	7	7	4	3	11	12	13
28	2	8	6	7	7	7	8	5	3	3	1	8	12	13	13
Mean ..	6·9	7·4	7·5	7·9	7·9	7·2	6·8	5·9	6·0	6·6	6·9	8·6	11·0	12·9	13·4

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR)

Hours.									Mean.	Beckley's Mean velocity.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
12	13	11	11	10	10	10	7	7	6·8	5·3	16 37	20	8 22	0	1
15	15	14	13	13	13	9	8	7	8·0	6·2	16 10	22	8 15	0	2
12	11	11	10	7	3	7	5	5	7·0	5·4	13 20	22	7 5	0	3
15	16	14	11	8	7	6	5	4	8·0	5·7	16 35	22	8 27	0	4
13	15	18	17	14	12	11	10	6	8·9	6·5	18 5	26	10 12	0	5
14	11	10	10	8	9	7	11	11	8·5	6·2	14 30	22	7 49	0	6
12	13	13	15	15	13	13	6	8	9·8	7·8	19 22	21	11 20	0	7
8	9	10	8	6	5	4	4	5	6·3	6·2	0 45	17	9 58	0	8
14	14	14	12	11	11	10	7	7	7·8	7·2	15 9	22	7 37	0	9
11	11	11	11	9	4	3	4	5	7·1	6·7	15 34	17	11 32	0	10
10	11	11	10	11	12	12	8	8	7·4	6·9	20 6	19	8 5	0	11
11	10	10	7	8	8	7	7	4	6·7	6·1	15 6	17	8 32	0	12
10	10	7	7	6	5	2	3	2	4·4	4·5	16 44	13	10 34	0	13
12	12	11	11	9	6	5	3	3	5·7	5·1	13 6	19	7 27	0	14
13	14	14	13	15	14	13	8	5	7·6	6·5	13 58	21	9 30	0	15
19	19	20	20	22	18	10	7	7	11·1	8·5	19 42	30	10 5	0	16
9	11	11	9	10	7	4	2	3	6·2	5·5	17 28	16	11 5	0	17
7	4	2	2	1	1	1	1	3	4·7	4·5	5 8	11	16 17	0	18
6	6	7	7	5	3	3	3	3	4·9	4·7	19 3	11	9 45	0	19
17	17	16	15	16	15	11	7	4	9·1	7·7	14 35	26	8 43	1	20
12	13	13	11	9	9	7	3	4	6·7	5·6	14 44	19	9 25	0	21
12	15	13	11	10	10	6	5	7	7·2	6·3	17 26	22	11 2	0	22
23	24	24	24	24	13	11	9	7	12·2	9·7	18 10	36	8 11	0	23
14	14	15	14	12	8	7	7	5	8·5	7·2	16 38	24	10 32	0	24
12	12	12	11	11	8	5	5	3	6·7	6·0	17 53	20	8 5	0	25
11	16	14	14	15	12	10	7	6	7·7	6·6	16 15	22	8 8	0	26
13	14	15	14	15	12	6	7	9	7·6	6·5	17 25	24	9 18	0	27
10	12	14	13	13	15	7	6	4	7·1	6·4	17 27	20	10 37	0	28
15	13	11	11	12	11	10	7	6	6·9	6·1	15 17	22	9 53	0	29
12	11	11	11	8	7	8	2	3	5·9	5·3	14 27	16	9 30	1	30
14	12	9	8	7	7	5	2	3	5·7	5·3	15 17	20	11 25	1	31
12·5	12·8	12·5	11·6	11·0	9·3	7·4	5·7	5·3	7·4	6·3					Mean.

FEBRUARY.

11	15	13	13	12	12	10	10	7	7·3	6·7	16 32	21	11 2	0	1
10	10	11	10	7	5	5	5	3	5·3	5·2	17 42	16	7 56	0	2
14	14	13	12	12	11	10	7	8	7·4	5·4	14 47	20	7 20	0	3
17	18	18	18	17	14	10	8	8	12·5	8·7	17 12	25	8 38	1	4
18	15	15	15	15	13	12	11	8	10·5	7·5	18 29	26	7 52	1	5
13	12	15	15	14	10	9	7	7	10·5	7·3	13 41	22	9 15	0	6
13	14	18	13	14	13	11	8	9	9·8	6·5	17 27	24	10 46	0	7
16	16	15	15	14	7	5	6	10	8·8	5·9	15 40	23	10 53	1	8
17	16	16	16	19	20	11	10	9	11·6	8·2	19 57	28	8 25	2	9
21	19	18	16	15	15	14	13	9	12·3	8·7	13 50	30	9 20	2	10
15	14	11	8	10	9	5	5	4	7·7	5·3	14 45	20	11 0	0	11
9	7	5	5	5	4	3	2	2	4·4	3·3	14 11	13	7 37	0	12
10	11	11	10	8	4	4	4	4	5·8	4·0	13 35	14	10 10	1	13
9	10	10	8	8	7	6	5	4	6·4	4·6	17 34	14	10 53	1	14
9	10	11	11	10	10	8	6	5	7·8	5·9	19 8	16	11 18	1	15
11	11	9	10	11	10	8	9	8	7·1	5·0	20 5	15	2 46	1	16
18	15	13	12	10	11	12	16	16	12·6	8·4	13 12	27	3 43	5	17
20	19	19	18	17	15	14	11	10	15·0	10·2	15 30	28	9 35	4	18
12	12	13	16	14	7	5	7	8	8·1	5·7	18 17	21	11 21	0	19
9	12	15	14	9	8	9	12	11	7·5	5·0	17 35	20	8 5	0	20
9	11	10	10	9	9	8	4	7	9·7	6·7	14 20	20	22 47	2	21
22	21	18	16	12	13	14	14	10	13·3	8·7	15 43	28	8 50	1	22
23	22	22	21	21	21	17	9	9	16·0	10·9	13 30	32	1 47	6	23
20	20	17	16	17	18	13	7	5	11·3	8·0	16 17	28	7 54	3	24
11	13	13	12	9	7	3	2	2	9·5	6·7	16 37	18	21 32	1	25
10	11	9	8	6	5	5	4	2	7·0	4·8	16 18	14	1 59	1	26
14	17	15	11	9	8	5	2	2	7·2	5·3	16 46	22	2 47	1	27
13	12	11	10	8	6	6	5	5	7·5	5·5	13 23	18	10 45	0	28
14·0	14·2	13·7	12·8	11·9	10·4	8·6	7·5	6·9	9·3	6·6					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	5	6	6	3	2	2	3	6	3	1	1	5	7	10	10
2	4	7	9	9	6	4	1	4	3	2	3	2	9	14	17
3	11	9	10	11	13	12	11	7	6	8	11	13	17	20	20
4	11	15	15	19	18	18	18	12	8	8	15	17	20	18	17
5	10	11	10	10	13	11	11	7	8	13	15	15	16	16	15
6	10	7	6	6	5	6	8	10	11	11	10	19	20	21	23
7	10	11	11	9	8	8	7	7	8	7	5	9	12	14	16
8	7	6	7	7	9	9	10	7	7	9	7	4	6	11	12
9	10	8	8	6	10	9	5	7	7	7	7	8	9	12	11
10	5	7	10	9	10	9	4	6	9	11	14	15	15	16	19
11	11	12	13	15	13	13	10	5	5	6	6	11	14	15	16
12	7	8	9	8	8	9	6	5	5	5	7	9	10	12	12
13	1	5	5	3	6	5	5	5	7	10	11	12	13	14	17
14	11	11	11	10	9	9	7	7	3	5	2	11	14	19	20
15	10	12	10	9	9	7	4	3	4	5	9	11	14	15	16
16	6	6	7	7	5	5	7	6	4	8	13	14	15	18	19
17	10	13	13	13	9	8	5	7	7	8	9	11	13	15	15
18	12	11	8	10	11	7	7	5	8	5	4	10	13	14	18
19	12	13	15	13	10	8	10	9	11	8	8	13	14	14	15
20	13	11	10	7	7	8	7	6	2	7	6	9	10	10	11
21	4	1	1	3	3	5	5	4	6	6	3	9	11	13	13
22	6	5	5	3	9	9	9	6	6	3	3	5	8	9	12
23	1	0	1	2	2	2	2	2	2	2	7	9	13	14	16
24	4	6	7	6	7	5	5	1	1	1	5	9	13	15	12
25	4	4	7	7	4	5	4	4	5	4	11	13	14	14	16
26	13	13	7	9	10	12	5	3	3	3	5	13	13	13	13
27	7	10	10	6	6	7	6	3	2	4	9	12	12	13	13
28	4	2	5	6	6	5	3	6	5	3	5	9	12	14	15
29	5	7	6	3	4	4	2	3	3	2	3	6	11	14	15
30	6	5	4	4	4	3	4	1	3	9	12	13	15	16	17
31	6	6	6	5	7	7	5	3	2	5	12	13	13	15	17
Mean ..	7·6	8·0	8·1	7·7	7·8	7·5	6·3	5·4	5·3	6·0	7·7	10·6	12·8	14·5	15·4

APRIL.

1	15	13	8	5	5	5	4	5	6	10	11	13	15	18	17
2	13	11	14	6	7	6	6	5	5	6	8	14	15	18	20
3	15	16	15	9	7	9	7	7	8	10	12	12	15	17	20
4	14	17	13	14	15	7	4	2	2	6	10	14	14	12	13
5	10	11	11	9	7	7	7	7	9	11	7	11	11	11	11
6	2	3	1	1	1	1	1	2	5	9	6	7	9	11	13
7	2	1	3	4	3	3	2	3	3	3	7	9	11	13	15
8	7	8	9	9	4	4	3	4	8	11	13	13	12	14	13
9	4	5	9	11	11	9	12	7	8	5	8	14	14	14	13
10	5	7	9	12	11	6	1	3	7	12	15	13	15	20	22
11	10	6	4	4	4	3	2	4	6	11	15	14	14	14	14
12	11	15	13	12	5	5	4	10	11	13	11	11	13	16	15
13	15	11	9	11	5	7	4	3	4	7	11	16	15	15	15
14	7	5	9	5	5	4	4	4	5	10	12	12	15	16	16
15	13	11	8	11	7	9	8	14	14	14	15	15	14	14	19
16	16	13	13	11	8	10	11	15	15	16	16	20	20	19	18
17	11	12	10	9	10	4	5	9	14	14	14	13	14	14	11
18	6	5	4	2	3	2	2	2	2	5	6	7	8	8	9
19	6	5	4	4	4	1	3	3	3	3	5	6	8	10	11
20	2	2	3	5	2	3	3	5	5	5	3	7	10	14	16
21	5	6	9	5	5	5	6	4	6	6	10	13	16	16	18
22	10	4	4	4	4	4	4	5	2	3	11	12	13	16	18
23	6	1	2	2	1	8	1	4	8	9	9	11	13	13	13
24	1	3	5	4	5	9	9	10	11	11	13	14	11	11	11
25	2	5	4	3	4	7	5	0	1	3	9	11	13	16	16
26	2	9	9	11	5	3	3	3	2	9	12	12	13	16	17
27	6	7	10	5	1	1	2	3	4	4	5	7	9	9	11
28	5	5	4	2	2	2	1	3	4	3	8	14	17	20	19
29	14	10	8	8	8	7	5	6	7	9	13	14	13	17	13
30	8	8	4	5	2	9	9	12	8	6	6	9	11	13	12
Mean ..	8·1	7·8	7·6	6·8	5·4	5·3	4·6	5·5	6·4	8·1	10·0	11·9	13·0	14·5	15·0

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Hours.									Mean.	Beckley's Mean Velocity.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
12	11	11	8	5	6	6	3	3	**5·6**	**4·3**	17 23	16	9 13	0	1
21	21	21	19	17	11	9	11	10	9·7	7·0	15 50	31	9 5	0	2
19	19	19	15	12	8	7	8	8	12·3	8·3	14 12	28	8 46	3	3
20	17	16	16	15	12	6	6	9	**14·4**	**10.1**	12 8	30	9 8	2	4
16	17	16	14	13	15	13	12	12	12·9	8·8	16 35	23	8 33	3	5
23	24	25	**26**	23	17	13	10	11	14·4	9·8	17 10	**34**	3 33	4	6
17	17	17	18	18	12	8	7	7	11·0	7·6	18 41	24	10 28	3	7
9	9	8	10	11	11	12	11	10	8·7	6·0	14 8	20	11 40	1	8
12	13	13	9	9	7	6	5	5	8·4	6·4	16 55	17	6 55	2	9
21	20	19	16	17	17	15	13	13	12·9	8·9	15 25	29	6 32	2	10
16	15	13	12	11	11	9	6	6	11·0	7·7	15 15	23	9 16	2	11
14	13	11	8	5	2	2	1	1	7·4	5·7	15 42	17	8 50	1	12
17	17	17	17	17	13	11	9	10	10·3	7·1	16 45	27	0 0	1	13
20	20	19	17	14	7	6	7	7	11·1	7·8	14 30	28	8 30	0	14
15	17	14	12	9	6	5	6	6	9·5	6·4	16 35	23	7 17	2	15
16	15	19	20	19	12	10	7	5	11·0	7·5	14 33	27	8 20	2	16
15	15	15	14	8	1	3	9	11	10·3	7·3	15 27	23	20 25	0	17
19	18	15	15	15	12	8	9	11	11·0	7·7	15 40	26	10 10	1	18
17	15	13	13	12	11	9	8	13	11·8	8·7	15 37	23	10 17	5	19
11	11	9	6	3	2	2	2	5	7·3	5·6	0 52	17	8 8	0	20
12	13	12	11	7	5	6	8	7	7·0	5·7	14 7	22	7 13	0	21
12	13	11	8	5	5	4	3	1	6·7	5·4	16 51	17	11 8	0	22
17	15	14	17	15	11	11	11	7	8.0	6·5	18 3	24	0 22	0	23
12	11	8	5	3	3	4	4	4	6·3	5·1	13 5	22	7 40	0	24
17	17	17	15	16	14	13	11	12	10·3	7·6	15 52	25	9 47	0	25
13	11	9	9	10	9	9	8	7	9·2	7·3	12 36	19	7 38	0	26
14	12	10	10	9	4	2	4	8	8·0	6·1	15 32	21	9 32	0	27
18	18	15	11	8	6	3	2	1	7·6	6·0	16 55	22	23 17	1	28
16	17	16	14	12	11	9	10	7	8·3	6·4	15 33	20	6 40	0	29
17	17	15	15	17	14	13	10	10	10·2	7·8	17 6	24	7 17	0	30
17	16	15	15	15	12	11	12	12	10·3	7·5	14 15	23	8 16	0	31
16·0	15·6	14·6	13·4	11·9	9·3	7·9	7·5	7·7	9·8	7·1					Mean.

APRIL.

18	17	16	14	14	17	17	16	14	12·2	8·9	13 48	26	8 15	1	1
20	20	17	19	18	17	17	14	15	13·0	9·4	13 55	28	8 52	1	2
21	20	19	14	18	16	13	13	15	13·7	10·1	14 47	28	4 24	3	3
15	16	18	21	23	15	4	4	7	11·7	8·7	19 9	29	7 48	0	4
10	11	11	10	7	6	9	7	3	8·9	7·3	11 43	17	23 55	2	5
13	10	9	9	7	5	2	1	3	5·5	4·7	14 40	18	22 13	0	6
15	12	9	10	10	13	12	9	10	7·6	6·2	15 12	23	1 5	0	7
15	16	13	11	11	10	8	4	3	9·3	7·3	16 4	24	6 43	2	8
12	12	13	14	12	11	5	6	8	9·9	7·7	14 7	22	9 31	0	9
22	20	20	19	20	18	20	16	13	13·6	10·0	14 28	30	7 18	0	10
14	20	20	13	9	8	10	14	10	10·1	7·8	16 8	27	8 17	1	11
17	19	17	15	18	17	17	17	18	13·3	10·2	19 48	28	6 50	1	12
17	16	16	14	13	18	21	20	15	12·4	9·6	21 40	29	7 5	1	13
18	16	14	16	13	12	15	20	16	11·2	8·6	22 43	28	8 16	2	14
16	18	15	12	14	16	20	20	20	14·0	10·4	22 45	26	4 37	4	15
18	20	20	18	18	15	13	14	12	**15·4**	**11·5**	12 26	30	4 19	5	16
9	8	7	8	7	8	9	8	7	9·8	7·3	10 15	21	6 12	2	17
8	7	4	3	2	4	6	4	5	**4·7**	**3·8**	14 56	14	18 38	0	18
12	14	13	12	7	5	5	1	2	6·1	5·0	15 50	20	8 50	0	19
15	15	12	11	9	9	10	8	6	7·5	6·7	15 8	22	2 32	0	20
16	16	16	14	12	12	16	16	13	10·9	8·6	14 48	24	9 45	0	21
15	16	17	15	15	14	17	17	14	10·6	7·9	14 15	27	8 44	0	22
13	13	13	7	6	6	5	1	2	7·0	5·7	16 40	20	6 30	0	23
11	10	8	6	6	4	2	1	1	7·4	5·9	11 45	19	0 20	0	24
15	15	17	16	16	14	11	7	4	8·9	7·0	17 34	23	7 0	0	25
18	15	10	5	7	2	2	6	4	8·1	6·3	16 10	26	8 7	0	26
10	8	3	4	7	5	7	4	1	5·5	4·7	14 27	14	7 15	0	27
21	23	23	23	25	21	16	13	12	11·9	7·9	17 40	31	6 31	0	28
13	14	10	4	1	1	3	6	8	8·8	5·1	13 18	21	21 0	0	29
11	12	10	10	10	10	10	10	8	8·9	4·5	13 40	18	9 46	1	30
14·9	15·0	13·7	12·2	11·8	11·0	10·7	9·9	9·0	9·9	7·5					Mean.

WIND VELOCITY, 1927.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	6	5	6	6	8	10	12	13	11	10	12	9	11	12	13
2	6	6	7	6	6	5	5	3	7	5	9	11	13	15	17
3	7	7	7	7	7	1	1	1	3	9	12	13	16	18	19
4	10	9	7	5	4	3	2	1	1	4	10	13	16	17	19
5	5	6	6	6	6	3	3	1	4	8	11	13	16	17	16
6	5	5	5	5	1	0	0	6	5	5	9	11	14	13	12
7	3	3	3	3	2	1	1	2	7	8	9	10	12	13	11
8	6	3	6	3	1	1	1	7	2	5	9	10	11	12	12
9	6	5	5	6	8	8	5	4	7	9	10	11	12	13	14
10	6	6	5	6	5	5	4	3	4	4	6	8	9	11	13
11	7	6	6	6	7	7	3	6	7	8	8	8	10	10	11
12	4	4	6	7	7	6	5	4	6	7	7	9	10	10	11
13	5	6	6	8	9	7	5	5	4	5	7	9	9	10	10
14	4	4	3	3	3	3	1	4	4	6	7	10	12	12	13
15	8	7	8	7	9	8	7	8	10	11	13	15	16	18	20
16	13	14	14	11	7	7	6	6	14	16	15	18	20	21	20
17	14	15	13	14	13	12	11	11	6	11	13	17	16	19	18
18	7	7	8	4	4	4	2	5	10	12	14	16	18	20	18
19	10	14	10	12	11	5	3	2	6	9	10	10	11	14	18
20	9	8	8	9	8	5	3	5	8	8	11	13	18	19	19
21	2	3	1	3	3	7	7	6	4	6	7	8	12	17	18
22	7	2	3	3	3	4	4	7	6	8	9	10	11	10	10
23	5	4	4	4	4	3	3	3	4	6	7	8	10	11	12
24	8	9	9	9	10	9	7	8	8	8	8	8	10	10	10
25	10	10	11	11	11	11	12	12	10	10	10	12	11	12	13
26	10	9	12	12	10	10	12	11	11	11	11	12	13	12	12
27	13	11	11	11	11	11	9	10	8	8	10	11	12	11	11
28	11	10	10	9	9	9	8	6	5	4	5	6	7	8	9
29	4	5	3	4	5	6	3	3	4	3	4	5	7	10	11
30	5	5	6	6	4	4	3	3	2	4	7	8	11	12	15
31	3	2	1	4	5	4	5	6	6	6	12	14	16	19	20
Mean ..	7·1	6·8	6·8	6·8	6·5	5·8	4·9	5·5	6·3	7·5	9·4	10·8	12·6	13·7	14·4

JUNE.

1	6	5	3	4	2	1	2	1	1	1	7	11	14	17	18
2	24	23	22	22	23	21	16	13	11	14	20	24	24	22	22
3	25	24	22	18	17	16	13	13	11	11	12	13	13	14	14
4	18	11	11	13	12	10	11	10	11	12	11	12	13	10	10
5	18	22	28	30	29	26	27	23	17	15	20	22	21	23	23
6	17	15	10	12	11	12	12	12	18	17	17	16	16	15	15
7	7	10	8	9	4	8	9	8	8	7	7	8	8	9	11
8	11	9	8	11	13	13	12	11	11	8	8	9	10	10	10
9	12	12	11	13	12	12	11	11	10	12	12	13	12	12	13
10	13	13	14	14	14	14	11	14	14	12	12	13	13	12	12
11	11	12	10	10	12	11	10	9	10	10	10	10	10	10	7
12	11	11	12	10	10	14	14	9	8	11	12	11	12	13	12
13	10	14	15	12	12	8	4	5	5	4	1	4	7	11	12
14	2	4	2	5	8	7	5	9	8	13	14	16	21	18	17
15	12	11	11	6	6	8	6	6	3	4	11	13	14	20	24
16	7	12	11	18	10	16	18	20	11	20	20	20	16	16	16
17	15	15	15	15	13	15	20	30	26	17	21	20	15	15	25
18	34	18	14	17	28	30	30	25	22	19	1	2	11	8	14
19	15	16	14	7	3	2	1	7	8	5	7	10	10	14	13
20	11	13	13	1	13	16	18	17	17	16	18	21	25	22	21
21	11	12	10	10	13	11	13	12	13	13	10	10	8	8	11
22	13	14	14	12	13	13	12	12	12	9	10	12	12	12	12
23	13	12	15	16	15	14	15	12	17	16	17	12	15	14	12
24	14	14	13	13	11	11	10	11	13	12	14	14	15	15	13
25	11	13	10	9	7	9	8	7	7	7	7	8	8	9	9
26	6	6	6	6	5	5	5	4	8	8	8	8	9	9	9
27	4	6	6	5	4	4	5	5	8	6	6	6	13	14	14
28	17	6	5	7	11	5	5	7	9	11	9	10	7	11	11
29	12	13	9	7	8	11	8	8	7	10	13	14	14	14	10
30	17	16	15	11	11	13	12	8	12	16	22	20	19	17	13
Mean ..	13·2	12·7	11·9	11·4	11·7	11·9	11·4	11·3	11·2	11·2	11·9	12·7	13·5	13·8	14·1

(Averages for periods of sixty minutes from full hour to full hour of local mean time).

MAY. (IN MILES PER HOUR.)

Hours.									Mean.	Beckley's Mean Velocity,	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
13	13	12	10	8	7	7	7	7	9·5	4·8	16 28	18	4 40	3	1
20	19	21	18	11	7	7	7	7	9·9	5·8	18 4	26	7 7	2	2
20	21	22	17	14	13	10	8	8	10·9	6·0	17 7	30	6 40	0	3
19	21	22	22	16	14	10	8	5	10·7	6·7	17 28	30	8 0	1	4
18	15	15	15	14	12	11	9	5	9·8	5·6	13 37	22	7 8	0	5
12	13	13	12	11	9	9	6	4	7·7	**3·7**	13 5	19	4 43	0	6
11	11	10	9	9	9	10	7	7	7·1	4·0	12 1	17	6 15	0	7
13	13	13	13	10	9	9	10	10	7·9	4·5	15 47	19	6 16	0	8
13	13	12	10	7	8	7	7	7	8·6	5·4	13 54	18	7 3	0	9
12	11	10	10	9	6	6	6	7	7·2	4·5	15 5	17	7 2	0	10
11	10	10	9	6	5	6	6	4	7·4	4·3	15 6	16	23 58	1	11
11	11	10	9	8	7	5	6	5	7·3	3.7	15 44	17	21 31	0	12
10	10	9	8	7	7	6	5	5	7·2	3·9	16 10	16	9 58	0	13
13	14	15	12	10	8	6	6	7	7·5	4·8	17 5	19	6 28	0	14
20	20	20	20	22	22	17	16	14	14·0	8·5	19 52	30	6 46	2	15
21	**26**	24	12	14	17	20	17	13	**15·3**	**10·6**	17 6	**34**	6 29	3	16
19	20	20	15	13	14	15	13	10	14·3	9·7	17 15	26	8 12	4	17
21	23	23	18	14	9	10	16	13	12·3	8·5	17 15	32	7 35	0	18
18	20	18	15	14	11	15	13	14	11·8	8·0	16 52	28	6 22	2	19
18	18	18	15	12	14	15	10	6	11·5	7·5	16 27	27	7 15	2	20
18	17	16	13	11	12	14	13	13	9·6	6·4	16 5	23	9 9	0	21
12	12	10	9	8	8	7	5	5	7·2	4·5	16 10	16	6 45	0	22
10	10	9	8	8	9	9	8	10	7·0	3·9	13 46	17	6 27	0	23
10	10	10	11	10	10	10	11	12	9·4	4·9	23 52	21	9 13	2	24
13	11	10	9	10	10	10	9	10	10·7	5·7	15 48	19	15 17	4	25
11	10	9	12	11	11	11	12	12	11·1	6·4	3 22	20	9 17	3	26
10	9	10	10	10	11	12	12	11	10·5	5·8	11 22	20	8 32	2	27
10	9	10	9	6	6	7	5	6	7·7	4.3	1 9	17	9 32	0	28
11	12	11	8	6	6	6	6	5	**6.2**	4·0	16 38	16	6 17	0	29
16	15	12	8	7	6	5	4	4	7·2	5·1	16 15	24	7 44	0	30
20	20	20	13	10	8	7	6	7	9·7	6·7	17 6	30	9 14	0	31
14·6	14·7	14·3	12·2	10·5	9·8	9·6	8·8	8·2	9·5	5·8					Mean

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14	12	10	7	10	13	13	20	22	8·9	6·0	23 54	27	2 2	0	1
22	17	17	20	20	20	22	23	26	20·3	14·9	3 43	32	9 15	8	2
14	16	15	14	14	10	9	15	23	15·3	10·8	23 37	32	21 5	0	3
12	13	12	16	18	18	17	14	12	12·8	9·8	21 18	30	13 47	4	4
23	22	24	25	24	21	20	18	16	**22·4**	**17·7**	3 38	38	9 8	10	5
12	10	10	10	10	10	10	9	10	12·7	8·6	9 58	26	22 30	4	6
10	10	11	10	11	9	10	10	11	8·9	5·2	3 39	22	4 30	1	7
9	9	10	10	9	10	10	10	10	10·0	5·7	3 48	18	16 42	2	8
12	13	12	13	11	11	10	9	11	11·7	5·9	22 22	24	11 43	3	9
12	13	12	12	12	13	13	12	12	12·7	6·8	20 29	29	15 6	5	10
8	10	8	14	11	9	11	12	15	10·4	5·7	10 30	23	14 53	2	11
14	14	12	15	13	12	13	12	12	12·0	8·7	19 35	23	14 42	5	12
8	10	7	7	6	5	11	6	5	7·9	5·8	2 57	24	10 5	0	13
16	15	13	13	16	12	10	10	12	11·1	8·0	12 52	32	8 34	0	14
24	30	25	22	17	17	13	9	7	13·3	10·0	16 5	39	8 18	2	15
13	14	12	16	12	14	18	15	18	15·1	9·6	6 58	42	0 23	3	16
25	20	20	20	18	20	20	30	**37**	20·3	12·8	7 20	**57**	12 15	6	17
23	27	23	20	19	16	15	14	14	18·5	13·1	5 40	43	11 0	0	18
12	9	10	13	15	16	15	11	13	10·3	7·2	1 12	25	5 30	1	19
20	20	21	15	10	12	11	13	12	15·7	12·3	12 30	29	3 30	0	20
8	11	13	13	13	11	11	10	11	11·1	6·3	9 13	22	17 10	1	21
12	13	12	13	13	12	13	13	15	12·4	6·6	6 3	32	8 48	6	22
17	18	17	17	16	16	16	15	16	15·1	9·0	0 50	34	14 7	4	23
12	13	14	12	12	14	13	11	12	12·7	7·2	14 2	24	6 56	4	24
10	10	11	11	10	10	9	8	6	8·9	4·7	0 5	22	14 52	2	25
8	8	8	7	8	7	8	6	6	7·0	**3·9**	14 58	14	7 20	1	26
14	14	14	13	10	9	8	5	13	8·6	6·0	23 6	22	22 57	0	27
7	10	12	11	7	8	13	16	14	9·5	6·7	0 20	28	16 12	1	28
5	13	14	12	12	18	19	21	17	12·0	9·5	20 53	27	2 57	0	29
9	8	8	10	7	8	11	5	11	12·5	8·5	10 47	25	15 53	3	30
13·5	14·1	13·6	13·7	12·8	12·7	13·1	12·7	14·0	12·7	8·4					Mean

JULY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)
(IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	7	2	5	8	12	13	12	14	16	15	13	15	12	6	8
2	10	10	8	12	12	11	5	6	12	15	12	16	12	10	8
3	13	11	14	15	16	17	15	15	16	9	9	9	9	13	10
4	15	16	14	13	12	12	12	17	16	22	20	15	16	16	21
5	14	16	16	18	20	20	19	19	20	18	16	21	20	18	18
6	15	17	16	18	17	16	18	18	21	16	20	22	16	17	17
7	14	16	18	18	20	18	17	20	19	18	19	18	18	19	15
8	18	18	20	20	19	18	20	19	17	19	20	20	21	18	17
9	20	20	21	19	17	19	18	18	18	17	20	20	19	19	20
10	20	20	19	19	18	18	18	18	18	21	19	18	18	18	18
11	20	19	19	19	19	19	17	19	17	19	16	16	18	18	18
12	24	23	23	22	21	20	20	20	20	20	20	21	20	20	19
13	20	19	24	22	22	23	23	23	21	23	25	25	24	22	23
14	16	17	16	16	16	17	18	16	16	16	15	15	14	14	14
15	12	13	15	14	16	16	14	11	11	12	11	12	13	16	16
16	16	15	14	16	18	17	16	17	16	15	14	13	13	15	16
17	15	15	20	13	10	14	12	12	14	14	15	15	15	14	14
18	14	17	16	17	16	16	17	19	16	6	15	15	17	18	20
19	18	17	17	18	17	17	19	17	15	20	11	16	16	18	18
20	20	21	20	20	21	19	18	18	17	22	23	23	27	26	22
21	25	26	26	26	25	23	24	20	23	14	15	17	20	20	21
22	17	20	25	21	21	20	20	21	22	25	16	22	20	19	19
23	21	22	23	23	22	22	23	22	20	22	21	24	22	20	20
24	25	25	24	23	25	28	24	24	25	25	24	24	25	24	24
25	25	24	26	27	27	27	26	30	29	26	28	24	26	26	28
26	25	24	25	25	23	24	26	26	25	26	22	23	22	26	25
27	25	23	24	22	25	25	24	25	24	24	22	25	24	24	23
28	22	23	22	22	22	21	20	23	23	22	20	19	20	17	20
29	17	18	17	20	17	14	18	15	15	18	16	14	12	14	14
30	14	14	13	13	13	13	13	14	13	12	12	12	14	12	13
31	13	13	12	12	10	10	11	10	10	15	15	8	12	12	9
Mean . .	17·7	17·9	18·5	18·4	18·4	18·3	18·0	18·3	18·2	18·3	17·5	18·0	17·9	17·7	17·7

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1	11	11	10	12	12	14	14	12	16	15	14	8	10	8	8
2	10	10	13	12	13	12	11	11	14	16	14	13	15	13	10
3	10	10	11	11	13	10	10	9	10	11	14	20	13	12	13
4	14	13	14	15	15	16	16	16	15	18	14	12	11	10	10
5	16	17	17	20	20	18	18	18	17	17	15	16	17	16	16
6	15	16	16	17	16	16	16	16	15	14	16	16	15	14	15
7	15	16	18	17	17	20	18	16	16	16	15	16	15	15	16
8	16	16	15	18	18	20	20	18	19	18	17	18	18	18	18
9	17	15	16	16	16	16	15	15	22	14	17	18	20	20	19
10	16	17	17	16	17	17	17	17	18	18	16	15	16	14	13
11	14	14	14	16	15	15	15	14	14	15	16	15	13	14	14
12	17	16	16	14	17	16	16	11	14	15	12	12	15	16	17
13	13	18	13	15	14	11	12	15	12	10	12	11	14	16	12
14	10	11	10	9	9	9	12	13	13	12	13	14	14	14	17
15	14	13	14	13	13	13	13	14	16	18	16	13	12	12	14
16	16	16	15	16	17	15	14	15	14	16	17	13	16	16	17
17	15	13	12	16	13	13	12	11	7	13	8	11	7	9	11
18	12	12	12	12	13	13	11	12	11	11	14	16	7	10	8
19	14	12	10	10	9	12	14	14	16	14	16	16	15	13	13
20	13	14	14	14	16	13	14	14	13	12	14	15	14	15	12
21	13	16	13	12	12	16	17	16	16	14	8	9	15	14	11
22	14	15	15	14	13	14	13	13	14	14	15	16	18	17	17
23	16	18	18	17	19	17	18	17	15	14	12	12	13	14	12
24	14	14	14	16	16	18	17	16	16	13	15	13	14	15	14
25	13	15	17	17	17	13	14	13	12	10	8	9	12	14	14
26	15	13	15	14	14	16	7	3	5	6	10	9	10	11	11
27	11	10	10	10	9	11	10	6	11	10	11	16	18	18	16
28	10	9	10	10	10	10	11	10	10	12	14	15	16	14	13
29	11	12	12	12	12	11	12	12	13	15	14	16	18	18	22
30	13	14	13	12	14	14	14	14	14	15	14	14	15	16	17
31	16	17	17	16	16	16	16	17	15	17	15	16	18	19	16
Mean . .	13·7	14·0	13·9	14·2	14·4	14·4	14·1	13·5	14·0	14·0	13·7	14·0	14·3	14·4	14·1

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
8	9	12	10	10	6	7	7	9	9·9	6·9	9 4	20	1 45	0	1
8	10	5	12	9	7	10	6	5	**9.6**	6·7	18 40	22	23 2	1	2
12	14	13	15	14	12	10	10	10	12·5	8·3	8 55	28	12 32	4	3
20	21	22	16	18	16	15	13	14	16·3	**10·3**	17 10	35	13 15	6	4
17	18	18	17	15	15	11	16	14	17·3	9·3	10 8	34	21 3	4	5
17	17	18	16	12	15	14	14	15	16·7	9·1	8 25	39	19 30	7	6
18	17	16	14	15	16	15	14	14	16·9	9·3	8 13	37	15 1	6	7
17	17	16	17	19	16	18	17	19	18·3	10·0	19 47	38	8 10	6	8
20	20	20	19	19	21	19	16	21	19·2	10·2	23 3	34	6 13	7	9
18	16	18	18	19	21	16	19	21	18·6	10·1	17 50	**46**	11 35	8	10
20	18	18	20	15	16	20	19	20	18·3	10·3	17 59	34	3 17	8	11
19	18	20	20	21	20	20	19	18	20·3	13·3	3 30	33	16 50	6	12
21	21	20	21	18	17	16	16	15	21·0	11·8	12 56	35	23 22	8	13
13	13	14	14	13	12	12	11	12	14·6	7·4	4 52	30	13 42	6	14
17	16	17	14	13	13	12	14	15	13·9	8·7	1 43	32	7 47	6	15
18	15	16	19	16	15	14	14	14	15·5	10·4	2 20	30	12 15	8	16
16	12	16	14	13	14	13	14	14	14·1	8·2	12 40	32	9 9	6	17
15	10	14	18	18	18	16	15	16	15·8	9·4	7 47	35	9 22	5	18
20	20	23	20	17	18	16	17	17	17·6	11·4	19 21	34	10 53	8	19
23	22	21	18	17	20	21	23	23	21·0	14·3	15 21	40	19 12	10	20
23	24	24	22	20	20	20	18	18	21·4	13·4	**0** 45	42	10 14	8	21
22	22	21	21	24	22	22	18	20	20·8	12·1	12 57	39	3 25	10	22
22	24	23	24	22	23	21	22	22	22·1	13·7	2 15	39	13 16	10	23
27	**30**	26	25	25	26	27	24	26	25·2	15·9	16 10	43	6 52	14	24
26	27	24	26	26	24	24	23	24	**26·0**	**17.2**	8 20	43	5 33	14	25
24	23	27	26	24	25	26	26	26	24·7	15·0	17 3	45	12 52	12	26
23	23	23	20	20	20	22	21	23	23·1	12·7	9 5	44	9 47	11	27
18	16	17	16	16	16	17	18	20	19·6	10·5	8 32	38	18 7	8	28
13	13	13	12	12	13	15	14	14	14·9	7·8	3 12	33	17 12	6	29
13	12	12	9	12	14	12	12	12	12·6	6.9	12 5	22	11 22	5	30
10	11	10	10	10	9	8	10	10	10·8	**5.8**	10 32	23	11 45	3	31
18·0	17·7	18·0	17·5	16·8	16·8	16·4	**16·1**	16·8	17·7	10·5					Mean.

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8	9	7	8	7	7	9	11	10	**10·5**	5·5	8 37	32	15 41	2	1
11	12	9	10	9	10	10	10	10	11·6	6·8	12 14	24	14 5	5	2
12	11	11	11	12	12	12	13	14	11·9	6·7	11 35	32	16 37	4	3
16	14	18	16	16	16	15	15	16	14·6	7·8	9 6	34	12 28	5	4
17	17	17	16	17	16	15	15	15	16·8	8·8	2 2	35	0 27	6	5
15	15	15	16	14	15	15	14	15	15·3	7·6	16 30	28	18 5	6	6
14	16	16	16	17	15	15	14	15	16·0	9·7	1 52	26	20 8	7	7
18	18	17	16	16	16	17	18	18	**17·5**	**11·0**	20 12	28	2 13	8	8
18	17	16	17	16	16	16	16	16	16·8	8.9	8 17	**36**	9 35	6	9
14	16	14	15	15	14	16	14	14	15·7	8·0	21 31	29	14 22	5	10
16	12	12	13	14	15	12	14	17	14·3	7·6	11 48	30	16 3	5	11
16	16	16	18	16	16	11	14	13	15·0	8·5	7 42	30	9 55	6	12
11	13	13	10	7	5	8	9	10	11·8	6·6	1 2	24	9 11	4	13
14	12	17	14	14	12	12	12	12	12·5	6·9	17 36	28	16 30	6	14
14	14	16	15	14	14	14	14	14	14·0	7·3	10 8	31	7 42	6	15
15	17	14	12	12	13	14	13	13	14·8	7·8	9 20	30	3 35	7	16
13	13	14	13	11	11	11	10	12	11·6	6·3	3 38	24	12 5	4	17
7	10	10	10	10	10	11	11	10	11·0	5·5	2 18	25	15 44	2	18
13	12	12	11	12	13	12	13	11	12·8	6·8	10 47	33	19 23	5	19
12	13	14	16	10	14	14	8	12	13·3	6·9	4 17	28	22 7	3	20
11	13	12	13	14	14	17	13	12	13·4	7·5	12 38	28	11 53	4	21
16	15	16	16	16	14	14	15	16	15·0	8·2	23 18	32	6 45	6	22
13	14	16	14	16	15	15	14	13	15·1	7·9	4 25	27	10 37	6	23
14	14	11	13	11	13	14	17	16	14·5	7·7	7 18	30	17 18	4	24
13	13	13	11	13	12	14	13	14	13·1	6·8	3 12	26	18 57	4	25
10	12	10	11	10	11	8	10	10	10·5	**5·3**	5 21	26	8 3	0	26
14	12	14	12	12	11	12	12	11	12·0	7·0	12 3	27	7 39	3	27
12	12	11	12	10	11	12	10	12	11·5	5·7	12 9	25	9 30	4	28
18	12	18	18	16	17	16	13	14	14·7	9·2	14 56	31	0 45	6	29
17	20	20	16	17	15	15	16	16	15·2	9·5	16 38	29	12 55	7	30
17	17	7	17	16	16	14	15	18	16·4	10·1	12 23	32	15 39	6	31
13·8	13·9	14·1	13·7	13·2	13·2	13·2	13·1	13·5	13·8	7·6					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	18	14	15	18	16	16	18	15	16	20	18	15	16	21	6
2	12	12	13	14	16	14	12	13	13	14	15	14	13	14	13
3	12	14	13	13	12	11	12	11	11	10	11	7	6	8	11
4	11	11	12	11	12	10	12	11	11	12	13	13	13	11	11
5	11	12	13	13	13	13	13	14	14	13	15	15	16	16	15
6	8	10	11	11	9	8	8	9	9	10	11	12	14	14	14
7	10	11	11	12	12	12	12	14	14	13	12	11	10	11	14
8	10	10	11	13	15	15	16	16	23	14	12	14	12	12	19
9	6	6	7	7	8	6	6	8	8	8	9	10	10	10	9
10	3	2	2	1	3	6	9	8	8	6	6	6	6	8	8
11	5	5	6	6	4	4	6	8	6	8	13	15	17	15	15
12	7	5	3	3	7	5	6	10	11	12	12	10	11	13	15
13	17	6	15	11	6	6	6	9	8	9	11	14	14	13	13
14	8	6	4	3	2	1	0	4	5	8	8	10	11	12	11
15	0	0	0	0	0	3	6	8	6	3	1	6	12	13	14
16	2	2	2	2	2	2	2	2	2	3	4	8	10	12	15
17	4	6	5	6	5	6	5	7	9	11	12	13	17	20	20
18	1	4	2	0	16	5	1	5	4	4	3	4	7	13	14
19	8	8	5	4	4	5	5	5	11	13	9	9	7	6	7
20	4	3	5	8	10	5	6	6	5	5	6	7	6	7	7
21	8	7	12	13	11	12	11	9	10	17	15	18	22	19	22
22	15	12	16	14	10	11	11	11	13	17	21	19	19	11	13
23	4	11	13	13	11	9	9	9	11	13	14	13	11	8	3
24	11	8	10	9	9	7	8	10	10	9	14	11	14	7	6
25	1	1	3	7	5	5	4	5	5	3	1	4	8	10	11
26	9	12	9	6	6	8	5	5	7	6	1	9	10	13	12
27	7	8	4	4	7	7	7	3	3	4	9	8	9	9	11
28	10	8	3	6	4	5	6	10	12	6	4	6	6	5	8
29	9	9	12	12	10	12	12	9	6	9	10	12	7	7	6
30	3	4	5	8	8	7	4	4	3	1	3	5	7	8	9
Mean . .	7·8	7·6	8·1	8·3	8·4	7·9	7·9	8·6	9·1	9·4	9·8	10·6	11·4	11·5	11·7

OCTOBER.

1	10	5	3	4	1	3	3	5	4	4	8	8	11	15	16
2	7	11	8	9	6	6	7	9	8	9	8	10	9	9	13
3	11	11	12	11	8	8	10	9	9	5	7	7	10	13	13
4	7	5	2	1	2	6	6	7	6	6	5	8	8	7	9
5	10	10	10	9	9	6	6	3	4	4	5	8	12	12	13
6	9	9	9	8	12	10	9	9	8	8	7	10	13	15	16
7	7	8	11	8	11	12	13	13	11	10	9	11	11	9	11
8	7	6	7	9	10	9	7	8	7	5	5	6	8	10	12
9	3	4	4	7	9	8	8	7	8	14	14	13	13	12	11
10	8	5	5	6	5	6	7	8	8	8	6	5	6	6	6
11	3	2	6	7	7	9	10	10	8	6	4	6	7	8	8
12	5	4	4	2	0	1	3	4	6	8	8	10	12	12	14
13	6	9	9	6	5	5	5	5	7	6	5	7	9	10	9
14	4	4	5	5	5	4	5	5	5	5	6	9	10	11	10
15	1	0	0	2	1	1	1	4	3	3	4	7	7	9	11
16	4	2	3	3	1	5	5	4	4	4	0	3	9	10	11
17	3	4	4	2	1	1	4	6	5	6	5	9	11	11	12
18	5	3	5	6	5	5	5	6	9	11	12	13	12	13	13
19	7	7	10	10	8	6	6	8	10	10	11	13	13	13	14
20	6	4	7	6	5	5	6	5	11	12	13	13	15	15	16
21	4	4	4	5	7	8	6	5	8	5	8	9	10	12	12
22	5	3	4	8	10	9	6	5	7	5	4	2	1	8	9
23	5	6	6	7	7	9	11	13	10	8	4	4	2	3	6
24	7	5	7	7	7	8	8	9	7	7	4	2	2	4	7
25	3	6	7	7	9	10	10	10	12	10	7	6	5	1	7
26	4	2	2	5	4	4	6	5	7	8	6	6	5	4	7
27	2	3	4	4	3	6	2	4	5	5	5	4	3	6	7
28	5	6	7	8	7	6	5	5	4	5	3	2	9	8	10
29	0	2	4	1	0	0	1	1	1	5	3	1	2	3	6
30	4	5	8	6	6	6	8	6	8	7	8	8	7	8	8
31	5	6	7	8	9	9	10	10	9	8	8	8	8	8	9
Mean . .	5·4	5·2	5·9	6·0	5·8	6·2	6·4	6·7	7·1	7·0	6·5	7·4	8·4	9·2	10·5

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Beckley's Mean Velocity.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
4	7	5	14	14	13	10	12	13	13·9	9·0	13 25	39	15 15	0	1
14	13	12	15	15	14	14	14	12	13·5	8·9	11 35	24	12 5	6	2
10	12	12	11	13	12	12	13	11	11·2	7·5	18 53	20	13 23	2	3
12	12	10	10	9	10	8	10	11	11·1	7·0	12 37	18	5 15	4	4
14	14	13	13	12	10	9	10	8	12·9	8·0	12 12	22	21 37	4	5
15	15	16	12	12	12	11	11	10	11·3	5·9	12 40	25	8 3	3	6
13	13	15	12	11	11	10	10	11	11·9	6·2	17 31	24	12 45	0	7
17	8	8	9	1	9	8	9	6	12·0	7·3	8 50	33	19 55	0	8
10	9	8	7	7	7	6	4	5	7.5	4·0	15 14	18	22 15	4	9
8	9	10	9	7	7	7	6	6	6·3	4·9	17 25	12	10 37	0	10
16	17	16	16	14	11	6	3	4	9·8	6·2	18 50	34	1 45	1	11
15	14	16	14	9	9	8	4	6	9·4	6·6	17 55	32	23 55	0	12
13	13	13	13	12	8	7	6	7	10·4	6.6	0 8	44	5 15	0	13
7	2	2	4	5	8	8	5	3	5·7	4.3	13 15	23	5 20	0	14
14	15	15	12	10	10	6	3	3	6·7	5·2	16 56	21	0 15	0	15
18	18	18	17	15	10	5	4	4	7·5	5·7	16 3	25	0 55	0	16
19	19	16	14	11	9	6	2	7	10·4	7·4	13 38	28	22 15	2	17
10	11	14	13	11	9	10	8	11	7·5	5·3	4 47	25	2 46	0	18
7	10	6	3	4	6	5	5	3	6·5	4·6	9 9	15	17 48	2	19
5	6	0	6	17	12	13	16	12	7·4	5·2	19 15	22	16 18	0	20
18	19	17	17	18	17	16	13	14	14·8	11·9	12 32	31	0 36	6	21
13	10	14	11	11	14	6	4	6	12·6	10·0	12 15	25	22 8	1	22
10	7	9	10	10	8	5	4	4	9·1	7·2	17 40	22	14 10	0	23
9	7	6	6	5	2	2	2	2	7·7	5·5	12 13	16	23 52	2	24
12	12	11	10	8	6	6	5	5	6·2	4.5	16 13	18	11 5	0	25
14	14	14	11	10	9	6	7	3	8·6	5·8	0 44	28	10 52	0	26
11	11	15	11	7	7	5	4	5	7·3	4·8	17 33	26	0 28	0	27
12	10	8	6	5	10	6	6	8	7·1	5·0	15 37	19	2 8	1	28
8	7	6	8	3	1	6	5	5	8·0	5·8	11 15	16	19 35	0	29
10	11	9	7	5	5	7	7	13	6·4	4·7	23 34	16	6 17	0	30
11·9	11·5	11·1	10·7	9·7	9·2	7·8	7·1	7·3	9·3	6·4					Mean.

OCTOBER.

17	16	13	14	10	5	5	6	5	8·0	5·4	15 41	23	1 58	0	1
14	15	15	15	14	13	13	11	11	10·4	7·3	16 57	23	12 56	4	2
14	13	11	10	9	7	6	6	7	9·5	6·5	1 58	21	23 50	0	3
9	12	11	11	9	9	9	9	9	7·2	5·3	0 5	17	1 50	0	4
13	13	12	9	9	8	7	8	8	8·7	6·1	14 52	18	9 18	0	5
17	17	14	8	8	7	8	8	10	10·4	7·7	16 7	25	20 23	2	6
13	11	13	14	13	11	11	9	7	10·7	7·6	15 17	19	13 23	4	7
14	10	7	6	6	6	6	5	3	7·5	5·0	15 15	20	2 43	0	8
7	5	5	6	5	8	10	10	11	8·4	5·8	13 35	20	2 29	0	9
7	6	5	2	2	2	2	2	2	5·2	3·6	1 52	13	1 23	0	10
7	5	4	2	2	2	2	4	6	5·6	4·2	1 1	13	0 40	0	11
16	16	14	12	11	11	8	9	9	8·3	6·1	16 14	22	4 5	0	12
9	9	10	11	10	7	6	4	3	7·2	5·1	18 10	14	10 35	0	13
11	12	11	8	7	7	6	5	4	6·8	4·7	16 17	17	10 27	1	14
11	10	8	5	1	0	4	4	7	4·3	3·4	15 2	15	0 40	0	15
10	10	10	8	7	6	5	4	3	5·5	4·1	14 47	16	4 35	0	16
13	12	9	9	8	7	7	5	4	6·6	4·8	15 11	18	5 15	1	17
13	14	13	11	9	8	8	8	7	8·9	6·5	16 40	20	1 20	2	18
15	15	13	12	10	11	8	5	7	10.1	7·2	15 55	22	22 35	4	19
16	15	13	11	13	6	5	5	4	9·5	6·6	15 25	21	1 48	3	20
12	13	13	13	14	12	9	7	7	8·6	6·1	16 44	18	9 40	2	21
10	10	10	8	9	7	7	6	4	6·5	4·8	16 46	14	12 35	0	22
9	10	9	7	6	5	4	5	6	6·7	4·6	6 49	15	12 22	0	23
8	10	7	6	8	6	5	5	5	6·3	4·5	16 35	12	13 8	0	24
10	10	9	9	8	9	7	5	4	7·5	5·5	15 52	14	13 50	0	25
9	9	8	7	5	6	6	5	5	5·6	4·1	18 7	13	1 46	0	26
8	7	6	9	7	6	4	4	4	4·9	3·9	14 48	13	0 47	0	27
11	10	10	10	7	7	6	4	3	6·6	5·0	15 35	16	11 23	0	28
8	8	8	7	7	8	5	4	5	3·7	3·4	16 17	12	0 0	0	29
9	11	12	13	13	11	9	6	3	7·9	5·5	17 36	16	23 49	0	30
11	13	15	20	19	17	13	10	10	10·4	7·0	19 31	25	0 54	2	31
11·3	11·2	10·3	9·5	8·6	7·6	6·8	6·1	5·9	7·5	5·4					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	9	11	15	13	11	11	12	12	11	9	7	8	10	11	15
2	14	13	12	14	12	12	9	8	8	8	8	9	13	14	16
3	6	6	9	9	11	9	8	8	8	7	5	7	7	8	7
4	3	3	4	7	7	7	7	7	7	10	12	13	13	14	16
5	8	7	6	7	8	10	9	9	9	6	5	5	9	10	11
6	5	4	6	8	7	8	10	8	9	7	4	3	5	6	8
7	5	5	4	5	4	3	6	11	11	10	5	5	7	8	9
8	5	5	5	6	6	6	6	7	5	4	5	7	9	12	13
9	7	6	7	6	6	7	7	8	8	5	3	3	6	8	9
10	4	7	3	8	8	11	8	8	10	11	8	8	8	5	4
11	5	5	7	7	5	5	5	6	7	9	8	8	7	7	7
12	21	19	19	22	23	21	19	19	21	20	21	23	25	25	20
13	11	9	7	12	13	9	6	5	5	5	6	5	5	3	1
14	10	8	10	9	8	9	8	4	8	7	7	6	6	9	12
15	13	10	10	11	12	12	10	11	12	12	11	10	9	9	7
16	18	16	16	16	15	15	17	15	14	14	14	12	10	11	8
17	12	13	15	15	12	14	12	8	9	9	9	9	7	7	8
18	9	10	11	12	13	13	11	11	11	10	9	6	6	6	4
19	5	6	7	7	7	9	10	11	12	10	8	7	5	5	6
20	6	4	4	4	6	8	10	12	11	9	8	6	5	4	7
21	6	6	6	7	7	9	11	12	11	11	9	11	10	9	11
22	7	7	7	9	10	11	12	13	12	9	8	7	6	5	5
23	6	5	6	7	8	9	11	12	13	10	8	7	6	5	7
24	4	5	5	8	8	11	12	10	9	7	5	5	5	4	7
25	5	5	4	6	8	7	8	9	9	9	8	7	6	6	5
26	7	6	8	8	8	8	9	12	12	9	7	7	8	8	9
27	9	10	9	9	8	9	8	8	9	8	9	9	8	7	5
28	5	5	5	8	9	11	10	9	10	9	7	8	4	3	6
29	5	7	10	12	9	11	9	8	9	7	4	2	4	7	10
30	5	4	6	8	9	13	13	13	13	13	12	11	10	7	6
Mean . .	7·8	7·6	8·1	9·3	9·3	9·9	9·8	9·8	10·1	9·1	8·0	7·8	8·0	8·1	8·6

DECEMBER.

1	5	9	8	9	10	9	14	14	14	12	11	10	8	6	7
2	5	5	4	6	9	12	11	10	9	9	8	6	6	6	6
3	5	5	6	6	8	10	11	11	9	8	5	4	6	7	7
4	6	7	8	6	7	8	7	6	6	7	4	7	11	12	12
5	7	4	3	5	8	5	5	6	6	5	4	4	4	8	9
6	4	4	6	7	8	8	8	8	8	6	5	6	7	7	7
7	14	15	15	15	16	16	19	16	**21**	20	18	15	13	10	9
8	8	9	11	13	12	14	14	14	12	11	9	9	8	8	7
9	10	12	11	11	13	14	13	13	12	10	9	11	5	4	5
10	5	3	5	4	6	6	9	9	7	6	5	5	5	4	5
11	5	6	5	6	6	6	6	6	6	6	4	5	6	5	6
12	3	3	3	3	3	4	6	7	7	7	6	5	5	7	9
13	6	6	5	5	6	6	7	5	4	4	3	2	3	6	7
14	7	7	7	7	7	8	9	9	10	9	6	5	5	8	7
15	4	3	6	7	6	7	5	6	6	5	5	6	5	7	7
16	1	3	2	2	3	4	4	8	11	10	7	5	3	4	5
17	6	7	7	7	12	11	9	10	7	5	5	5	5	5	9
18	3	4	6	12	10	9	12	12	13	10	11	11	12	10	8
19	7	4	5	11	12	12	9	7	7	6	8	11	14	15	14
20	7	7	8	7	6	7	7	4	6	7	6	12	14	17	18
21	8	8	8	9	9	8	8	7	7	12	9	7	11	13	14
22	10	8	8	7	8	9	9	9	7	7	6	6	9	11	12
23	7	7	7	5	5	5	6	6	7	6	4	3	7	9	10
24	6	6	7	5	6	7	9	9	11	10	4	7	5	8	9
25	7	6	4	6	6	8	6	7	8	8	5	3	3	4	7
26	5	4	4	5	9	6	6	7	7	5	5	4	4	6	7
27	4	4	5	6	6	8	8	6	5	5	3	2	5	8	9
28	5	4	5	9	7	9	8	8	5	5	1	**0**	7	9	10
29	5	4	3	3	3	3	3	3	3	3	8	8	10	9	8
30	6	5	5	5	5	5	7	8	6	6	4	3	6	10	12
31	10	11	12	11	11	8	7	6	7	7	11	14	16	16	17
Mean . .	6·2	6·1	6·4	7·1	7·8	8·1	8·5	8·3	8·5	7·6	6·4	6·5	7·4	8·4	9·0

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Beckley's Mean Velocity.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
16	19	19	18	16	15	9	7	11	12·3	8·3	16 40	25	13 18	4	1
16	18	18	13	11	9	9	9	6	11·6	7·9	15 21	24	11 15	4	2
9	10	7	5	5	4	4	3	3	6·9	**3·7**	2 43	14	22 10	3	3
16	16	17	17	16	13	12	10	9	10·7	6·7	17 34	22	0 0	3	4
14	13	13	15	15	13	9	7	5	9·3	6·5	19 20	20	10 50	2	5
9	10	10	12	9	6	7	4	5	7·1	5·0	18 22	16	23 10	0	6
11	12	12	11	11	10	11	10	5	8·0	5·8	15 51	17	5 12	0	7
13	14	12	9	8	7	5	4	6	7·5	5·1	16 35	19	11 11	3	8
8	8	7	6	6	7	6	6	3	**6·4**	4·5	14 59	11	12 3	1	9
8	8	8	9	11	11	9	17	14	8·6	5·8	22 56	24	2 30	0	10
8	8	7	10	12	13	13	18	19	8·6	5·6	22 50	32	1 23	2	11
12	20	25	**30**	30	28	17	15	17	**21·3**	**16·7**	20 10	**47**	23 55	6	12
4	7	8	10	11	12	11	11	9	7·7	5·5	19 50	20	14 32	0	13
14	14	14	16	16	14	10	12	15	10·3	7·2	23 56	22	12 15	2	14
9	11	12	11	10	11	12	14	14	11·0	7·5	22 35	22	15 6	5	15
8	10	9	13	13	13	12	9	14	13·0	9·3	0 32	23	14 40	6	16
13	14	15	15	14	12	7	5	7	10·9	7·7	17 45	20	13 35	4	17
5	5	6	7	7	7	9	8	7	8·5	6·3	5 53	14	14 30	3	18
8	9	9	8	8	9	9	6	5	7·7	5·8	8 23	13	13 37	4	19
12	12	13	11	11	11	7	7	7	8·1	6·0	16 8	17	13 58	3	20
12	14	12	13	13	13	8	8	7	9·8	7·0	16 27	18	1 2	5	21
7	7	9	13	13	12	7	6	6	8·7	6·2	18 5	21	14 23	4	22
8	9	10	10	11	10	8	6	6	8·3	6·0	19 30	16	13 39	4	23
7	6	6	6	7	9	10	8	6	7·1	5·1	6 42	13	0 32	3	24
7	9	9	7	6	7	9	8	8	7·2	4·9	8 7	12	1 19	4	25
12	12	13	14	13	11	9	6	8	9·3	6·4	18 5	18	12 52	5	26
8	10	10	10	11	11	9	5	5	8·5	6·1	16 34	14	14 50	4	27
9	10	9	9	9	9	9	7	4	7·7	5·6	5 53	14	14 23	4	28
11	10	8	6	8	8	9	9	6	7·9	5·8	3 43	14	10 35	2	29
8	8	9	12	10	11	7	5	4	9·0	6·5	9 15	17	1 8	3	30
10·1	11·1	11·2	**11·5**	11·4	10·9	9·1	8·3	8·0	9·3	6·5					Mean.

DECEMBER.

7	8	9	9	10	9	7	6	6	9·0	6·3	6 14	18	13 42	4	1
9	10	9	8	9	10	10	7	7	8·0	5·8	5 53	14	2 27	3	2
8	7	7	7	5	5	5	6	7	6·9	4·8	6 46	13	12 15	2	3
11	11	12	11	8	7	7	6	9	8·2	5·8	16 17	17	10 10	4	4
10	11	10	10	9	8	7	4	4	6·5	4·5	16 6	15	12 45	2	5
9	13	12	11	8	6	7	10	12	7·7	5·8	16 53	18	19 47	0	6
9	8	10	11	12	10	7	6	7	**13·0**	**10·1**	9 9	**25**	15 45	6	7
8	11	14	14	11	8	6	3	5	10·0	7·5	17 35	19	22 47	2	8
9	11	10	10	10	9	7	6	7	9·7	7 0	5 15	16	14 18	3	9
7	7	7	6	5	5	5	4	4	5·6	**3·6**	6 31	12	1 45	1	10
7	7	8	8	9	10	10	6	4	6·4	4·2	20 5	10	11 42	3	11
10	10	9	8	10	11	11	6	6	6·6	5·1	21 12	14	4 42	3	12
7	7	7	8	6	6	6	7	7	5·7	4·1	17 58	10	11 47	1	13
8	8	7	7	6	6	6	6	5	7·1	5·0	8 28	11	13 11	2	14
11	13	13	13	11	12	11	7	4	7·5	5·7	17 11	18	1 55	2	15
6	7	7	9	7	7	7	7	7	5·7	4·0	8 5	15	1 7	1	16
10	9	6	6	7	5	6	10	5	7·3	5·2	15 2	15	8 53	4	17
8	6	6	7	6	6	6	6	7	8·4	6·2	17 57	17	1 0	2	18
14	12	13	13	12	12	11	10	7	10·3	7·2	12 45	20	1 54	1	19
19	19	18	20	17	16	12	11	8	11·4	8·0	16 53	25	7 41	2	20
16	16	15	15	14	13	11	10	11	10·8	7·5	16 35	21	11 23	4	21
13	15	15	15	13	8	8	7	7	9·5	6·3	17 13	20	11 19	3	22
11	11	13	12	11	11	8	7	6	7·7	5·5	17 18	16	12 10	3	23
10	9	7	7	10	7	7	8	8	7·6	5·1	19 33	13	10 12	1	24
9	9	6	5	5	6	6	5	5	6·0	4·2	15 40	10	10 30	2	25
7	8	6	5	3	3	3	3	3	**5·2**	3·9	16 40	10	19 45	3	26
8	9	8	10	11	10	9	8	7	6·8	5·0	19 3	14	11 15	1	27
12	11	12	11	11	10	6	4	4	7·2	5·3	15 52	16	11 0	0	28
9	9	10	10	9	10	7	5	6	6·3	4·5	11 57	13	9 52	2	29
11	10	8	8	8	10	10	10	9	7·4	5·4	14 25	15	10 37	1	30
18	18	18	18	16	14	14	12	9	12·5	8·7	15 47	25	9 26	5	31
10·0	**10·3**	10·1	10·1	9·3	8·7	7·8	6·5	6·5	8·0	5·7					Mean.

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	N	NE	NE	ENE	NE	NE	NE	NNE	NE	NE	NE
2	N	NNW	N	NNW	NNE	NNW	N	N	NE	E	ESE	NW
3	NW	NNE	NNW	NNE	N	N	E	Calm.	NW	NNW	NW	NW
4	N	N	NNW	N	NNW	NNW	N	N	NNW	NW	NW	NW
5	N	N	N	NNE	NNE	NNE	NE	ENE	NE	ENE	NW	NW
6	NNE	N	N	NNE	NNE	NNE	NE	NE	NNE	NNE	NNE	NW
7	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NNW
8	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNE	N	NNW
9	N	N	N	NNE	N	N	N	N	NE	NE	NW	NW
10	N	N	NE	ENE	NE	NE	NE	NE	NE	NE	NE	NE
11	NNW	NNW	NNW	N	N	N	ENE	NE	NE	ENE	WNW	NW
12	NNW	NNE	NNE	N	N	N	N	N	N	NE	NE	NE
13	N	N	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	E
14	NNW	N	NE	ENE	ENE	E	ENE	ENE	NE	ENE	ENE	WNW
15	N	NNE	NNE	N	N	N	N	NNE	ENE	NE	NE	WNW
16	ENE	ENE	NNE	N	N	N	N	N	NNE	N	NE	NW
17	N	N	N	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE
18	SE	SE	E	E	E	ESE	ESE	E	ENE	E	ESE	SW
19	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	E	WNW	WNW
20	N	NE	ENE	ENE	NE	NNE	N	NNE	NNE	NNW	NNW	NNW
21	NNE	NNE	N	N	N	N	ESE	NE	ENE	NE	NNW	NNW
22	N	N	NE	NE	NE	ENE	ENE	ENE	ENE	NE	NE	NW
23	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NW	NNW
24	N	N	N	N	N	N	N	NNE	N	NE	NE	NW
25	N	N	NNE	N	NNE	NE	ENE	NNE	NE	NE	NE	WNW
26	NE	NE	N	NNE	NNE	N	NNE	NNE	NE	NE	NW	NNW
27	NNW	NNE	NNE	NE	NNE	NNE	N	NNE	NE	NE	ENE	WNW
28	NNW	NNE	NE	NNE	N	NE	NE	NE	NE	NE	NE	WNW
29	NNE	N	NNW	N	NE	NE	NE	NNE	NNE	NNE	NW	WNW
30	ENE	ENE	NNE	NNE	NNE	NNE	NE	N	ENE	ENE	ESE	WNW
31	ENE	E	ESE	NE	NNE	ENE	ESE	N	NE	ENE	NW	WNW
Mean direction.	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	N	NW

FEBRUARY.

1	NE	N	N	NNE	N	NNW	ENE	NE	NNE	NE	NE	NW
2	N	N	NE	NE	NE	NE	NE	NNE	NE	NE	NNE	NNW
3	ENE	ENE	ENE	ENE	NNE	NNW	NE	NE	ENE	NE	WNW	NW
4	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NW	NW	NNW
5	N	N	NNE	N	N	ENE	N	N	NNW	NNW	NNW	NNW
6	NE	NNW	NNW	N	N	N	N	N	ENE	NNW	NW	NW
7	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	ENE	WNW
8	NE	N	N	NNE	NNE	NNE	N	NNE	N	ENE	NE	NW
9	NNW	NNW	N	NNE	NNE	N	NE	ENE	N	NNW	NNW	NNW
10	N	N	NNE	NE	NNE	N	N	NNE	N	NNW	NNW	NNW
11	NNW	NNW	NNW	NNE	NNE	N	ENE	NE	ENE	ENE	NE	WNW
12	NW	NW	NNW	NE	ENE	ENE	NE	N	ESE	SE	SSE	W
13	WSW	SE	SSE	ESE	ESE	ESE	ESE	ENE	ENE	E	ESE	S
14	W	WSW	W	ESE	E	E	E	ESE	ESE	ESE	SSE	WSW
15	NNE	E	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE	ESE	SW
16	W	W	WSW	ENE	E	ENE	ENE	ENE	ENE	E	E	SSE
17	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
18	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	NE	NNW	NW
19	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	NE	W
20	ESE	ESE	ESE	ESE	ESE	NE	NE	NE	NNW	NNW	ESE	SE
21	WSW	SSW	SSW	SSW	SSE	SSW	SW	SSW	SSW	SSW	SSW	SSE
22	NW	NW	NW	NNW	NNW	NNE	NNE	NNE	NE	NW	NW	NW
23	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNW	NNW
24	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE
25	ESE	ESE	ESE	ESE	NE	NE	NE	NE	NE	NE	NE	NE
26	SE	NNW	SE	SE	SE	SE	SSE	SSE	ESE	SE	SSW	WSW
27	ESE	SE	SE	NW	NNW	ESE	E	NE	NE	ENE	NE	ENE
28	W	SE	SE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	WNW
Mean direction.	N	N	N	NNE	NNE	NE	NE	NE	NE	NE	N	NW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	1
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	2
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NNW	3
NW	NW	NW	NW	NNW	NNW	NNW	N	NNW	N	N	N	NNW	4
NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	5
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	6
NNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	N	NNW	7
NNW	NNW	N	NW	NW	WNW	NW	NW	NNW	NNW	N	N	N	8
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	9
WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	N	N	NNW	N	10
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	11
WNW	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	N	N	NNW	12
W	W	W	WNW	WNW	WNW	NW	NNW	NNW	N	NNE	NNW	N	13
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	NNE	NNW	14
WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNW	15
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	16
WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	E	SE	N	17
SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	NE	ESE	18
WNW	WNW	WNW	W	W	W	WNW	NW	NNW	NNW	N	N	NW	19
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNW	20
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	N	NNW	21
NW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNE	N	N	N	22
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	23
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	24
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	NE	NNE	NNW	25
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	26
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	27
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	28
NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	N	N	NNW	29
WNW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	N	N	NNW	30
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	NE	NE	NNW	31
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	Mean direction

FEBRUARY.

NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	1
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NE	N	2
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	ENE	SE	NW	N	3
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	4
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	5
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	6
WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNW	7
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NE	N	NNW	NNW	8
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NNW	9
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	10
WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	11
WNW	W	W	W	W	WSW	W	W	WSW	WSW	WSW	WSW	W	12
WSW	W	WSW	W	WNW	WNW	WNW	WNW	WSW	WSW	SSW	W	WSW	13
WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	W	14
SW	WSW	WSW	WSW	W	WNW	WNW	WNW	NW	WNW	WNW	NW	SE	15
W	W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	NW	16
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	17
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	18
W	WNW	WNW	NW	NW	NW	NW	NNW	N	N	ENE	ESE	NNW	19
S	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	W	WNW	SSW	20
S	SSW	SSW	SW	WNW	WNW	NW	NW	NW	NW	WNW	NW	SW	21
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	NNE	NNW	22
NNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	N	NNW	23
NNE	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	24
WSW	WSW	WSW	WSW	NW	NW	NNW	NNW	NNW	N	ESE	SE	NE	25
WSW	WSW	WSW	WSW	W	WNW	WNW	NW	NNW	N	NNE	NNE	SSW	26
NW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	WNW	WNW	NNW	27
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	ENE	NNW	28
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Date.	Hours. 0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	E	ESE	ESE	ESE	NNW	NNW	ENE	ESE	ENE	NNW	ENE	WNW
2	SE	WNW	NW	NNW	NE	NE	NNW	NE	NE	ENE	SE	WNW
3	N	N	N	N	N	N	N	NNE	NNE	NNW	NNW	NNW
4	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNW	NNW
5	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	N	NNW	NNW	NNW
6	NNW	NNW	NNE	NNE	NNE	NE	NNE	NNE	NE	NE	N	NNW
7	N	N	N	N	NNE	NNE	NE	NE	NE	NE	NE	NW
8	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
9	SSE	S	S	SSW	ESE	ESE	SE	S	S	SW	WSW	WSW
10	NW	NW	NNW	NNW	NNW	NNW	NNE	N	NNW	NNW	NW	NW
11	N	N	NNW	NNW	N	N	N	N	NNE	NW	NW	NW
12	NNW	N	NNW	NNW	NNW	NW	NNW	NW	NW	NW	WNW	WNW
13	NW	NNW	N	N	N	N	N	N	NNW	NW	NW	NW
14	NW	NNW	NNW	N	N	N	N	N	NE	NNW	SE	NW
15	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNW	NW	NW	WNW	WNW
16	NNW	NNW	NNW	N	N	N	N	N	NNW	NW	NW	NW
17	NNW	NNW	NNW	NNW	N	N	N	N	NNW	NNW	NW	WNW
18	NNW	NNW	N	N	N	NNE	NNE	N	NNW	SE	S	NW
19	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NW	NW
20	NNW	NNW	NNW	NNW	N	N	NNE	N	SSE	WNW	W	WNW
21	NNW	NE	NE	ENE	NE	NNE	NE	NE	NE	NE	WNW	NW
22	SW	SW	SW	SSW	ESE	ESE	ESE	ESE	ESE	SE	SSE	WSW
23	WSW	WSW	SSW	S	SSW	SSW	ESE	ESE	ENE	E	WNW	WNW
24	NNE	NNE	NNE	NNE	N	NNE	NNE	NE	ENE	SE	W	WNW
25	WNW	NW	NW	NNW	NNE	NNE	NNE	NNE	ENE	ENE	NW	NW
26	NNW	NNW	N	N	NNW	NNW	NE	NNE	ENE	ENE	WNW	NW
27	NNW	NNW	NNW	N	N	N	NE	NE	ESE	ESE	NW	NW
28	N	NE	N	NNE	NNE	NE	SE	SE	ESE	ESE	WNW	WNW
29	WNW	NW	NNW	NNE	NNE	NNE	NE	ENE	ENE	SE	SW	W
30	NNW	NNW	NNE	NNE	NNE	NNE	NNE	NNE	NE	NW	NW	NW
31	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NW	NW	NW
Mean direction.	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	N	NW	NW

APRIL.

1	NNW	NNW	NNW	NNE	N	NNE	N	NNW	NNW	NW	NW	NW
2	NNW	NNW	NNW	NNE	NNE	N	N	NE	NE	NW	NW	NW
3	NNW	NNW	NNW	NNE	NNE	NNE	NNE	NE	NNW	NNW	NW	NW
4	NNW	NNW	NNW	NNW	NNW	NNE	NNE	SSE	SSE	WNW	NW	NW
5	SSW	SSE	SSW	SSW	S	SSE	SSE	SSE	SSE	SSW	SW	W
6	N	NNW	ENE	NNW	calm	E	SW	SSE	WNW	WNW	WNW	WNW
7	NW	NNW	NW	NNW	NNE	NE	NNE	ENE	ENE	E	WNW	WNW
8	NNW	NNW	NNW	NNW	NNE	N	N	N	NNW	NW	NW	NW
9	N	NNE	N	NNW	N	N	N	NNE	NNE	NNW	NW	NW
10	NW	NW	NW	NNW	NNW	NNW	NNE	NNW	NNW	NNW	NNW	NW
11	NNW	NNW	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NW	NW
12	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNW	NNW	NW	NW	NW
13	NW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	NE	NW	NW	NW
14	N	N	NNW	NNE	NNE	N	N	NW	NW	NW	NNW	NW
15	NNW	NNW	N	N	NNE	N	NNW	NNW	NNW	NNW	NW	NW
16	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	NW
17	NNW	NNW	NNW	NNW	NNW	NNE	N	NNW	NNW	NNW	NNW	NW
18	WNW	WNW	WNW	WSW	W	WSW	W	WNW	WSW	W	WSW	W
19	SSW	SW	SW	SW	WSW	WSW	SE	SE	SE	WNW	W	W
20	WNW	NW	NNW	NNW	NNE	NNE	NNE	NNE	N	ENE	WNW	WNW
21	NNW	NNW	NNW	NNE	NNE	NNE	N	N	NNW	NNW	WNW	WNW
22	N	NNE	NNE	ENE	NE	NNE	NNW	NNW	NNW	WNW	WNW	WNW
23	NNW	ENE	ENE	calm	ESE	SE	SE	WSW	WNW	WNW	WNW	WNW
24	WNW	SW	SSW	SSW	SSW	SSE	S	S	SSW	SSW	SSW	SSW
25	N	N	NE	NE	ENE	ESE	ESE	SE	SE	WNW	WNW	WNW
26	NW	NW	NNW	NNW	ENE	NNE	NNE	NE	NNW	NW	NW	NW
27	NW	NNW	NNW	NNE	N	N	SE	SW	WSW	WSW	WSW	W
28	NW	NW	NW	N	NNE	NNW	N	N	ENE	SE	WSW	WNW
29	NNW	NNW	NNE	NNE	NNE	NNE	N	NNW	NW	WNW	WNW	WNW
30	WNW	WNW	WNW	NW	WNW	ESE	ESE	ESE	SE	SSW	SSW	WSW
Mean direction.	NNW	NNW	NNW	N	N	NNE	NNE	N	NNW	NW	WNW	WNW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
W	W	WSW	WNW	WNW	NW	NW	NW	NNW	NNW	NE	ESE	NW	1
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	2
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	3
NNW	NNW	NNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NW	NNW	4
NNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	5
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	6
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	7
WSW	SW	SW	SW	WSW	SSE	SSE	SSE	SSE	SSE	S	SSE	ESE	8
WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WSW	9
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	10
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	11
W	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	NW	12
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	13
NW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	NNW	14
NW	NW	WNW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW	15
NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NW	16
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	17
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	18
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	19
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	WNW	WNW	NW	20
NW	NW	NW	NW	NW	NW	NW	WNW	SW	SSW	SW	SW	NW	21
WSW	WSW	W	W	WNW	WNW	W	WSW	W	WSW	WSW	WSW	SW	22
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	23
WNW	NW	NW	WNW	WNW	WNW	W	W	W	W	W	WNW	NW	24
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	25
NW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	26
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	27
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	WNW	28
WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	29
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	30
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	31
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	Mean direction.

APRIL.

NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	1
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	2
WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	3
NW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NNE	WSW	SSW	NW	4
W	W	WNW	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	WSW	5
WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	6
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NW	7
NW	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NNE	N	NNW	8
NW	NW	NW	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	NNW	9
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	10
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	11
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	12
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	13
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	14
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	15
NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NW	16
WNW	WNW	WNW	WNW	WNW	W	W	WSW	WSW	W	WSW	W	NW	17
WNW	W	W	W	WNW	W	W	WSW	SSW	SSW	SSW	SSW	W	18
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	W	19
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	20
WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NW	NNW	NNW	NW	21
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	22
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	W	WNW	NW	23
SW	SW	WSW	W	WNW	WNW	WNW	WNW	NW	NW	NNW	N	SW	24
WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	ENE	NW	25
NW	WNW	NW	NW	NW	NW	NW	WNW	WNW	SSW	WNW	WNW	NW	26
WNW	W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	NW	NW	WNW	27
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	28
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SW	W	W	NW	29
WSW	W	W	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	SW	SW	30
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	WSW	SW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	SSW	SSW	WSW
2	WSW	WNW	W	W	W	NW	NW	SE	ESE	SSE	WSW	W
3	NW	NW	WNW	NW	NW	N	NNE	N	NNW	NW	WNW	WNW
4	NW	NW	NNW	NNW	NNW	N	NNW	NNW	NNW	WSW	WNW	WNW
5	NW	NNW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW
6	NW	WNW	WNW	WNW	WNW	Calm.	WNW	ESE	SE	SW	WSW	WSW
7	W	W	W	W	WSW	WSW	WSW	SSW	SSW	SSW	WSW	WSW
8	WNW	WNW	WNW	WNW	NW	NNW	NNW	SE	SW	SSW	SW	SW
9	WSW	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW
10	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW
11	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SW	WSW
12	SW	SSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	SW
13	SW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW	W	WSW
14	WSW	SW	SW	SW	SW	SW	SW	NW	WNW	WNW	WNW	WNW
15	NW	NW	NW	NW	NW	NNE	NNE	N	NNW	NW	NW	NW
16	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	NNW	NNW	NW	NW
17	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	WNW
18	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	WNW	WNW	WNW	WNW
19	NNW	NNW	NNW	NNW	NNW	NNE	NE	ESE	W	W	W	W
20	NNW	SE	SSW	SSW	SW	SW	SW	WSW	WNW	WNW	WNW	WNW
21	W	W	W	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	W
22	NNW	NW	W	WSW	SSW	SSW	SW	SSW	SW	W	W	W
23	WSW	WSW	SW	WSW	WSW	WSW	W	W	W	W	WSW	WSW
24	SSW	SW	SW	WSW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW
25	SSW	SSW	SSW	SSW	SW	SSW	SSW	WSW	SW	SW	SW	SW
26	SW	SW	SSW	SW	SW	SW	SSW	SSW	SW	SW	SSW	SSW
27	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW
28	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW
29	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW
30	WSW	WNW	W	WNW	WNW	WNW	WNW	NNW	WNW	WNW	WNW	WNW
31	WNW	Calm.	WNW	NNW	NNW	N	NE	NE	N	NNW	NW	NW
Mean direction.	W	W	W	W	W	W	WSW	WSW	W	W	W	W

JUNE.

1	W	W	WNW	WNW	WNW	WNW	WNW	NNW	N	SW	WSW	W
2	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SSW	SSW	SSW
3	S	S	S	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW
4	SSW	SSE	SSE	ESE	ESE	SSE	SSE	SSE	SSE	S	S	SSW
5	SSE	SSE	S	S	S	S	S	SSE	SSE	SSE	SSW	SSW
6	SSW	SSW	SSW	SSW	SSE	SSW	SSE	S	SSW	SSW	SSW	SSW
7	SW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
8	W	W	WSW	WSW	W	W	W	W	W	W	WSW	WSW
9	SW	SW	SW	SW	SW	SW	WSW	SW	SW	WSW	WSW	WSW
10	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
11	WSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW
12	WSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	SSW	S W
13	SSW	SSE	SSE	SSE	SSW	SSW	S	E	ENE	ENE	SW	WSW
14	SE	SE	ESE	NE	ENE	ENE	ENE	NE	NW	WNW	W	W
15	WNW	NNW	N	N	NE	ENE	ENE	ENE	SW	WSW	WNW	WNW
16	S	SW	W	ESE	N	WSW	WSW	W	W	WNW	WNW	WNW
17	W	W	SW	SSW	WSW	SW	SW	SW	NNW	WNW	WNW	W
18	ENE	NNW	NNW	WNW	WNW	W	W	WSW	WSW	W	SSW	WSW
19	NW	W	NW	NNE	NNE	NE	NE	ESE	SE	SSE	WSW	WSW
20	ESE	SSE	SSE	SE	SSE	SSE	SSE	SSE	S	S	SSE	SSE
21	SSW	S	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	W
22	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WSW	WSW	WSW	WSW	WSW
23	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	W	WSW
24	WSW	WSW	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW	W
25	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
26	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SE	S	SW	SW
27	SW	SW	SW	SW	WSW	SSE	SSE	SSE	SSW	SW	WNW	W
28	WNW	W	WSW	NNE	ENE	NNE	NNE	W	S	SSE	SE	SSE
29	ESE	ESE	N	WNW	SSW	SW	SSW	SSW	SSW	SSW	SSW	S
30	SSE	SSW	WSW	SW	SE	SE	SE	SE	SSE	S	S	S
Mean direction.	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	SW	1
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	2
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	3
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	4
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	5
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W SW	W	W	WSW	WSW	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WNW	WNW	WNW	WSW	7
SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	8
W	WNW	W	WNW	WNW	WNW	W	WSW	WSW	WSW	SW	WSW	W	9
W	W	WNW	WNW	WNW	WNW	W	W	WSW	WSW	SSW	WSW	W	10
WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	W	WSW	WSW	11
SW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	SW	WSW	SW	WSW	12
WSW	WNW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	13
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	WNW	14
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	NNW	NW	15
NW	NW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	16
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NW	17
WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NW	18
W	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	19
WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NW	NNW	NW	WNW	WNW	20
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	21
WNW	W	W	W	W	W	W	WSW	W	W	WSW	WSW	W	22
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SW	SSW	WSW	23
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	24
WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SW	SW	SW	25
SSW	SW	WSW	SW	WSW	SW	SW	SW	SSW	SSW	SSW	SSW	SW	26
WSW	WSW	SW	SW	WSW	WSW	SW	SW	SW	SW	SSW	SW	SW	27
WSW	WSW	WSW	WSW	WSW	WNW	WNW	WSW	WSW	WSW	WSW	SW	WSW	28
W	W	W	WNW	WNW	WNW	WNW	WSW	W	WSW	WSW	WSW	W	29
WNW	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	30
NW	NW	NW	NW	NW	NW	NNW	WNW	W	W	W	W	NW	31
W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	Mean direction.

JUNE.

WNW	WNW	WNW	W	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW	WSW	1
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	2
SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	N	SSW	SSW	S	3
SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SE	SSE	S	4
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	5
SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	6
WSW	WSW	W	W	WSW	W	W	W	WSW	W	W	W	WSW	7
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	9
WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	10
WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	11
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	12
W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	ESE	SE	ESE	SSW	13
WNW	NW	NW	WNW	NW	NW	NW	WNW	WNW	NW	WNW	NW	NW	14
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSE	WNW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	WSW	W	W	16
W	WSW	W	W	WSW	WSW	WSW	SW	SSW	SSW	SSW	S	WSW	17
NNW	NNW	WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	WNW	18
WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSE	SSE	SE	ESE	SSW	19
SSE	S	SSW	SSW	SSW	SSW	WSW	SW	SSW	SSW	SW	WSW	S	20
WSW	WSW	W	W	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	21
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	22
WSW	WSW	W	WSW	W	W	WSW	W	WSW	WSW	WSW	WSW	WSW	23
W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	W	24
WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	SW	SW	WSW	WSW	25
WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	SW	WSW	26
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	W	27
SSE	SSW	WSW	NNW	WNW	NW	W	ENE	NNE	ESE	ESE	ESE	SE	28
SSW	SSW	SSW	SSE	SSE	SSW	SSE	SSE	S	SSE	S	SSE	S	29
SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	SSW	SW	S	S	30
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	SSE	WSW	SSW	SE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSW
2	SW	WSW	SSW	WNW	WNW	WNW	SW	SW	SSE	S	SSE	SSE
3	SSW	SSW	SSE	SSE	SSE	S	SSE	SSE	SW	W	WSW	SW
4	SSW	S	SW	SSW	SSW	SSW	SW	SSW	SSW	S	SSW	SSW
5	WSW	WSW	W	WSW	SW	WSW	W	W	W	WSW	WSW	WSW
6	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W
7	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW
8	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
10	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW
11	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
12	WNW	W	W	W	W	W	W	W	W	W	W	W
13	WSW	W	WSW	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW
14	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
15	WSW	WSW	WSW	WSW	W	W	W	WSW	WSW	WSW	W	W
16	W	W	W	WNW	WNW	WNW	WNW	WNW	W	W	W	W
17	WSW	WSW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
18	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WNW	WSW	W	W
19	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W
20	W	W	W	W	W	W	W	W	W	W	W	W
21	W	W	W	W	W	W	W	W	WNW	NW	W	W
22	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WNW
23	WSW	WSW	W	W	W	W	W	W	W	W	WSW	W
24	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
25	WSW	WSW	W	W	W	W	W	W	W	W	W	W
26	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
27	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
28	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
29	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
30	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW
31	SSW	SSW	SSW	SSW	SW	SW	WSW	SW	WSW	W	W	WSW
Mean direction.	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW

AUGUST.

1	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	SSW	SSW
2	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
3	SW	SW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	SW	WSW
4	SW	SW	SSW	SSW	SSW	SSW	SW	SSW	SW	SW	SSW	SW
5	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW
6	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW
7	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	WSW
8	W	W	WSW	W	W	W	W	W	W	W	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	NW	WSW	WSW
10	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW
11	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW
12	WSW	WSW	W	WSW	WSW	WSW	WSW	SSW	WSW	WSW	WSW	WSW
13	WSW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WNW	WSW	WSW	WSW
14	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW
15	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW
16	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	W
17	WSW	WSW	WSW	W	WNW	WSW	WSW	WSW	WSW	WSW	SW	W
18	WSW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW
19	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW
20	SW	SW	SW	SW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW
21	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW
22	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
23	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
24	WSW	WSW	SW	W SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW
25	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SW	WSW
26	WSW	WSW	WSW	WSW	SW	WSW	SSW	SW	SSW	WSW	WSW	SW
27	SSW	SSW	SSW	SSW	SW	SSW	SSW	SW	WSW	WSW	WSW	WSW
28	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
29	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W
30	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W
31	WSW	WSW	W	WSW	WSW	WSW	W	W	WSW	WSW	WSW	W
Mean direction.	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
SSW	WSW	SW	SW	SW	SSW	SW	WSW	WSW	WSW	WSW	WSW	S	1
S	SW	WSW	WSW	SW	SW	SSE	SSE	SSW	WNW	WNW	SSE	SSW	2
SW	W	SW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	3
SSW	SW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	WSW	WSW	SSW	4
WSW	W	WSW	WSW	SW	SW	SW	SW	WSW	WSW	SW	SW	WSW	5
WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WSW	7
WSW	WSW	WSW	WS W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	9
SW	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	10
WSW	WSW	WSW	W	WNW	WSW	W	WSW	WSW	WSW	W	W	WSW	11
W	W	W	WSW	WSW	W	W	W	W	W	W	W	W	12
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	13
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	14
W	W	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	15
W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	WSW	WSW	W	16
WSW	W	W	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	17
WNW	WNW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	18
WSW	WSW	W	W	W	WNW	WNW	W	WSW	WSW	W	W	W	19
W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	W	20
WSW	W	W	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW	W	21
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	22
WNW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	23
WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	WSW	24
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	25
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	26
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	27
WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	28
WSW	WSW	WSW	WSW	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SW	29
WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	30
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	31
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	Mean direction.

AUGUST.

WSW	SSW	SSW	SSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SW	1
SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SW	SSW	2
W	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	3
SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	4
SW	SW	SW	SW	SW	SW	SV	SW	SW	SSW	SSW	SW	SW	5
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WSW	7
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	9
SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	10
SW	WSW	SW	WSW	WSW	SW	WSW	W	WSW	WSW	W	WSW	WSW	11
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WNW	WSW	WSW	WSW	12
WSW	WSW	WSW	WSW	WSW	SSW	W	WSW	WSW	WSW	SSW	SW	WSW	13
WSW	WSW	W	WSW	WSW	WNW	W	WNW	WSW	WSW	WSW	WSW	WSW	14
WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	WSW	WSW	15
W	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	16
W	WSW	W	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	WSW	17
WSW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	WSW	SW	WSW	18
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	19
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	20
WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	21
SW	SW	SW	SW	SSW	SW	SSW	SSW	WSW	WSW	WSW	WSW	SW	22
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	23
SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	WSW	WSW	SW	24
SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	WSW	25
WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	WSW	26
WSW	W	W	W	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	27
WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	28
W	WSW	W	W	WSW	W	W	W	W	W	W	WSW	W	29
W	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	W	WSW	W	30
W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	W	WSW	31
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	Mean direction

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	W	W	WSW	WSW	WSW	WSW	WSW	W	W	WNW	W	W
2	WSW	WSW	WSW	W	W	W	W	W	W	W	WNW	WNW
3	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W
4	W	W	W	W	W	WSW	WNW	WNW	W	W	W	W
5	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
6	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW
7	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW
8	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WNW	WNW	WSW	WSW
9	WSW	WSW	SW	SW	SW	SW	SSW	S	S	WSW	WSW	WSW
10	WSW	WSW	WSW	S	S	S	S	S	SSE	SSE	S	S
11	NW	NNW	NNE	ENE	ENE	ENE	ENE	NE	ENE	NNW	NNW	NNW
12	NNE	N	NNE	NNE	NNE	NNE	NNE	N	NNW	NNW	NNW	NW
13	SSW	SSW	SSE	S	SW	WNW	NNW	NNE	ENE	NNW	NNW	NW
14	WNW	NW	NW	N	N	N	N	NW	NW	NW	WNW	WNW
15	ENE	Calm	ENE	ENE	ENE	ESE	ESE	ESE	ESE	ESE	ESE	WNW
16	N	NNE	NNE	NNE	NNE	NE	ENE	ENE	E	E	WNW	WNW
17	N	N	N	N	NNE	N	N	N	NNW	NNW	NW	NW
18	NNE	SSE	SSW	SSW	ESE	E	E	NNW	N	N	WSW	WSW
19	E	ENE	E	WNW	SW	SSE	SW	S	SSE	S	S	S
20	N	NNE	NE	ENE	ESE	ESE	NNE	NNE	NNE	NNW	NNW	NNW
21	ESE	SE	SSE	SSE	SSE	SE	SE	SE	S	S	SSW	SSW
22	SSE	SE	SSE	SSE	ESE	SE	SSE	SSE	S	S	S	S
23	SSE	S	SSE	SSE	SSE	SSE	SE	SSE	S	S	S	S
24	SSW	SSW	S	SE	SE	SE	SE	SE	SE	SSE	SSW	SSW
25	NNW	NNW	SE	SE	SE	SSE	SSW	SE	SE	SSE	SSW	WNW
26	NNE	N	N	N	NNE	NE	N	NNE	NNE	ENE	WNW	NW
27	ESE	WNW	WNW	NNE	E	ESE	SSE	SSE	SE	S	SSW	SSW
28	WNW	WNW	NE	NNE	ENE	E	ESE	ESE	ESE	ENE	SW	WSW
29	SSE	S	S	S	S	SSE	SE	SE	SE	SSE	SSW	SSW
30	SE	SE	SE	SE	SE	SE	SE	NW	NW	S	SW	SW
Mean direction.	SW	WSW	SSW	SSW	S	S	SSW	SSW	SSW	SW	WSW	WSW

OCTOBER.

1	NNW	N	NE	NNE	NNE	N	NNE	SE	SSE	S	WNW	WNW
2	W	NNE	E	N	NE	ESE	ESE	SE	S	S	SSW	SSE
3	WNW	NW	NW	NW	NW	ESE	ESE	SE	SE	SE	WNW	NW
4	SE	SE	NW	N	NE	NNE	ESE	SE	SE	SE	WNW	WNW
5	WNW	WNW	NW	NW	NNW	NNE	NNE	NNW	NW	NNW	WNW	WNW
6	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
7	NE	ESE	SE	S	SSE	SSE	SSE	SE	SSE	S	SSW	SSW
8	WNW	WNW	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSW	WSW
9	WNW	WNW	ESE	ESE	ESE	SE	SE	SE	S	S	S	SSW
10	SSW	N	variable	SE	SE	SE	SE	SE	SE	WSW	WSW	WSW
11	SW	NE	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	WSW	W
12	ESE	ENE	E	ESE	ESE	NE	NE	NNE	NE	NE	NNW	NW
13	N	N	N	NNE	NE	NNE	NNE	NE	ENE	ENE	NNW	NNW
14	N	N	N	N	N	N	NNE	NE	ENE	NNW	NW	NW
15	NNW	Calm	NNW	N	N	N	N	ESE	ESE	SE	NNW	WNW
16	SE	SE	SE	SE	SSW	ESE	ESE	ESE	ESE	ESE	ESE	W
17	WNW	NW	ENE	NE	NE	NE	ENE	ENE	ENE	E	NW	NW
18	N	NNW	N	N	NNE	N	N	N	NNW	NNW	NW	NW
19	N	NNW	NNW	NNW	N	N	N	N	NNW	NNW	NW	NW
20	N	N	N	NNW	N	NNE	NE	N	NNW	NNW	NNW	NW
21	NNE	N	N	N	N	N	N	N	N	NNW	NW	NW
22	N	NNW	NNE	N	N	NNE	N	NNE	NE	NE	ENE	ENE
23	NE	NE	NNE	NNE	NE	NE	NE	ENE	ENE	E	E	E
24	ENE	NNE	NE	NE	ENE	NE	ENE	E	E	E	E	E
25	NE	NE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
26	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
27	NNE	NNE	NNE	NE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE
28	ENE	ENE	E	E	E	ESE	ENE	ENE	ENE	NE	NE	ENE
29	ENE	ENE	ESE	ESE	ESE	ESE	ESE	N	ENE	NE	ENE	ENE
30	NE	ENE	ENE	NE	NNE	NNE	NE	ENE	NE	NE	NNE	NNE
31	ESE	NE	NE	NE	NE	ENE	NE	NE	NE	NE	NE	NE
Mean direction.	N	NNE	NE	NE	NE	ENE	ENE	E	ENE	ENE	NW	NW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
W	WNW	WNW	SW	SSW	W	W	W	W	W	WSW	WSW	W	1
WNW	W	W	WNW	WNW	W	WNW	WNW	W	WNW	WNW	WNW	W	2
W	WSW	W	W	W	WNW	WNW	WNW	W	W	W	W	WNW	3
W	W	W	W	W	W	WSW	WSW	WSW	WSW	SW	WSW	W	4
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	5
SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	6
SW	WSW	WSW	WSW	WSW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	7
WSW	W	W	W	WSW	WSW	WSW	Calm	W	W	WSW	WSW	W	8
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	9
WSW	W	W	W	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	SW	10
NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNW	11
NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	WNW	NNW	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	WNW	NW	13
WNW	WNW	WNW	NW	NNW	NNW	NNW	NNE	NE	NE	NE	NE	NW	14
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	15
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	N	NNW	16
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	NNW	NNW	17
WSW	WNW	WNW	NW	NW	NNE	ENE	NE	NNE	NNE	NE	ENE	N	18
WSW	WSW	W	WNW	NW	N	NNE	NNE	N	N	N	NNE	S	19
NNW	NNW	NNW	NNW	SSE	SSE	SS	SSW	S	S	SSE	SE	SE	20
SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SSE	SSE	S	21
SSW	SSW	SSW	SSW	SSW	S	SSE	SE	SE	Variable	SE	SSE	SSE	22
S	S	SSW	WSW	WSW	WSW	WNW	WNW	W	W	WSW	WSW	S	23
SSW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	S	24
WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NW	25
NW	NW	WNW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	NNW	NNW	26
SSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WSW	WSW	WSW	27
WSW	SW	NNW	WNW	WSW	WSW	WNW	ESE	ESE	ESE	ESE	SE	SE	28
WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	ENE	ESE	SE	SE	S	29
WSW	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	WNW	W	30
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	Mean direction.

OCTOBER.

WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	WNW	W	WNW	1
WSW	WSW	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	2
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NE	E	NW	3
WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	4
WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	5
NNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	ENE	ESE	ESE	SE	WNW	6
SW	SW	SW	WSW	WSW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SSW	7
WNW	WNW	W	NW	NW	NW	WNW	WNW	WNW	WNW	NNW	N	WSW	8
SSW	SW	SW	WSW	WSW	WSW	SW	WSW	SW	SSW	SSW	SSW	S	9
WSW	WSW	W	W	W	WSW	WSW	WSW	SW	SW	SW	SW	SSW	10
WNW	W	W	W	WSW	W	W	NW	NW	NW	N	ESE	SE	11
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	12
NW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	N	NNW	13
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	14
WNW	WNW	WNW	WNW	NW	NW	NW	NW	WSW	WNW	W	SE	NW	15
WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	WNW	WNW	NW	16
NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	N	N	NNW	17
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	18
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	NE	NNW	19
NW	NW	NW	NW	NNW	N	NNW	NNW	N	N	N	N	NNW	20
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	21
ENE	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	22
E	SSW	WSW	WNW	WNW	WNW	WNW	NNW	N	NNE	NNE	NE	NNE	23
E	WSW	W	W	WNW	NW	NNW	N	N	NNE	NNE	NE	NE	24
ENE	S	WNW	WNW	WNW	NW	NW	NNW	N	N	N	N	NNE	25
ENE	W	WNW	WNW	WNW	NW	NW	NNW	N	NNE	NNE	NE	NNE	26
ENE	WNW	WNW	NW	NW	NW	NNW	NNW	N	E	ESE	ESE	NNE	27
NW	NW	NW	NW	NW	NNW	NNW	N	N	N	NE	ENE	NNE	28
ENE	E	WNW	WNW	WNW	WNW	WNW	NNW	NNW	N	N	NNE	N	29
NNE	NNE	NNE	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	30
NNE	NW	NW	NW	NNW	NNW	N	N	N	N	NNE	NE	NNE	31
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	NNW	Mean direction.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NE	NE	NE	NE	NE	ENE	ENE	NE	NE	NE	NE	NE
2	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NW
3	NNE	NNE	NNE	NNE	NE	N	N	N	NE	ENE	ENE	W
4	Calm	Calm.	ESE	ESE	ESE	N	N	NNW	NNW	NNW	NW	NW
5	N	N	N	NNE	NE	NE	NE	NE	NE	NE	NE	NE
6	NNW	NE	NE	NE	NE	NNE	ENE	ENE	NE	NE	NE	NE
7	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	NE	NE	WNW
8	NE	NE	N	NNE	NE	NE	NE	NE	NE	NNW	NW	NW
9	NE	NE	ENE	NE	NE	NNE	NE	ENE	NE	NE	NE	NE
10	NNE	NNE	NNE	NE	NE	ENE	ESE		ESE	ESE	ESE	SE
11	WNW	NW	N	N	NNE	N	N		N	NNE	NNE	N
12	ENE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	ENE
13	ENE	NNE	NNE	N	N	N	NNE	NNW	NW	NW	WNW	W
14	NE	NNE	NNE	NNE	NE	NE	NNE	NNE	NE	NE	NE	NE
15	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
16	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE
17	E	ENE	ENE	ENE	ENE	E	E	ENE	ENE	NE	NE	NE
18	ENE	ENE	ENE	E	ENE	ENE	ENE	E	E	E	ENE	ENE
19	ENE	ENE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE
20	NNE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE
21	NE	NE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	NE	NE
22	N	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
23	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
24	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	NE	NE
25	E	E	E	ENE	E	E	E	E	E	E	NE	NE
26	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
27	ESE	ESE	E	ESE	ENE	E	E	ENE	ENE	ENE	NE	NE
28	NE	NE	NE	ENE	NE	ENE	ENE	ENE	ENE	E	E	ESE
29	ESE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE
30	NE	NE	ESE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
Mean Direction.	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE

DECEMBER.

1	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2	ENE	NNE	NE	NE	NE	NE	ENE	E	E	E	E	ENE
3	NE	NE	NE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE
4	E	ENE	ESE	NE	NE	NE	NE	NE	NE	NE	NE	NW
5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
6	ENE	E	ENE	ENE	NE	ESE	ESE	E	ENE	ENE	NE	NE
7	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE
8	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
9	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	ESE
10	N	NE	E	ENE	NE	NNE	E	E	ENE	ESE	ESE	NE
11	NE	NE	NNE	NNE	NE	ENE	NE	ENE	ENE	NE	NE	NE
12	NE	NE	NE	NE	NE	NE	ENE	NE	NE	NE	NE	NE
13	NNW	NNE	NNE	NNE	ENE	NE	NE	NE	NE	NE	ESE	SE
14	NNE	ESE	ESE	ENE	NE	NE	NE	NE	NE	NE	NE	NE
15	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE
16	NE	ENE	ENE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE
17	E	E	NE	NE	NE	ENE	ESE	ESE	E	E	NE	NE
18	SE	SE	SE	ESE	ESE	E	ESE	ESE	ESE	ESE	SE	SE
19	SE	S	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW
20	N	N	N	N	N	N	N	N	NNE	NNE	NNW	NNW
21	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NW
22	N	NNE	NNE	NNE	NNE	NNE	NNE	ENE	NE	NE	ENE	NNW
23	N	NNE	NE	ENE	NE	E	E	E	ENE	NE	NE	ENE
24	N	NNE	NNE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	E	E
25	ENE	NE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE
26	ENE	ENE	ENE	ESE	ESE	ESE	ENE	E	E	ENE	E	ESE
27	NNE	N	NE	NE	N	N	NNE	NE	NE	NE	NE	ENE
28	NNE	NNE	N	N	N	N	N	N	NE	NE	NE	WNW
29	N	N	N	ENE	ENE	ENE	NE	NE	ENE	NE	NW	NW
30	E	E	ESE	ESE	NE	NE	E	ENE	NE	NE	ENE	ENE
31	NNW	NNW	NNW	NNW	NNW	NNE	NE	ENE	ENE	NNW	NNW	NNW
Mean direction.	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NE	NE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Hours.												Mean direction.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNE	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	1
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	ENE	ENE	N	2
W	W	WSW	W	WNW	WNW	WNW	W	W	WNW	NW	Calm.	NNW	3
NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	NNW	4
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	5
NE	WNW	WNW	NW	NW	NNW	WSW	NNW	NNW	NNW	N	N	N	6
WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	NE	N	7
NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNW	8
WNW	WNW	WNW	NW	NW	NW	NNW	N	N	NNE	NE	NE	N	9
SE	S	WNW	WNW	NW	NW	NW	NNW	N	N	SSW	SSW	NNE	10
N	N	N	N	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	11
ENE	ENE	NE	NNE	NE	NE	NE	NE	NE	NNE	NNE	NE	ENE	12
WSW	W	WSW	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	N	13
NW	NW	NW	NW	NW	NNW	N	N	N	N	NNE	NE	N	14
NE	NE	NE	NW	NW	NNW	N	N	NNE	NE	NE	NE	NNE	15
NE	NE	NE	NE	NE	NNE	NNE	NE	NE	ENE	E	E	ENE	16
NE	NE	NW	NW	NW	NNW	NNW	N	N	NE	ENE	ENE	NE	17
ESE	ENE	WSW	WNW	WNW	NW	NNW	N	N	N	NNE	ENE	ENE	18
ENE	ENE	WNW	WNW	NW	NW	NNW	N	N	N	NNE	NNE	NE	19
NE	ENE	WNW	NW	NW	NNW	NNW	N	N	NNE	NNE	NE	NNE	20
NE	NW	NW	NW	NW	NW	NNW	N	N	N	NNE	N	NNE	21
ENE	ENE	WNW	WNW	NW	NW	NNW	N	N	N	NNE	NE	NE	22
NE	ENE	WNW	WNW	NW	NW	NW	NNW	N	N	NNE	NNE	NNE	23
NE	NE	W	WNW	WNW	WNW	NW	NNW	N	N	NNE	NE	NE	24
NE	NE	WNW	WNW	WNW	NW	NW	NW	N	N	N	NE	NE	25
NE	NE	NNE	NW	NW	NNW	NNW	NNW	N	N	NNE	ENE	NNE	26
NE	NE	NE	NW	NW	NW	NNW	N	N	N'	NNE	NE	NE	27
ENE	ENE	NW	NW	NW	NW	NW	N	N	N	N	NE	NNE	28
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	N	N	NNE	NNE	29
NE	NE	NW	NW	NW	NW	N	N	N	N	N	ENE	NE	30
NNE	N	NW	NW	NW	NNW	NNW	N	N	N	NNE	NE	NNE	Mean direction

DECEMBER.

NE	NE	WNW	WNW	NW	NW	NW	N	N	N	N	NE	NNE	1
NE	NE	NW	NW	NW	NNW	N	N	N	N	NNE	NNE	NE	2
SW	WSW	WSW	WSW	WSW	W	W	W	NE	NE	E	ESE	ENE	3
NW	NW	NW	NW	NW	NNW	N	N	N	N	N	N	N	4
NE	NW	NW	NW	NW	NW	NW	NNW	N	N	NNE	NNE	N	5
NE	NNE	NW	NNE	NW	NW	NNW	NNW	N	NNE	NE	NE	NE	6
NE	NE	NE	NNE	NNE	N	NNW	N	N	NNE	NE	ENE	NE	7
NE	NNE	NNE	NW	NNW	NNW	N	N	N	N	N	ESE	NE	8
ESE	ESE	NW	NW	NW	NW	NW	NNW	NNW	N	N	N	NE	9
NE	NE	WNW	WNW	NW	NNW	NNW	NNW	NNW	NE	NE	NE	NE	10
NW	NW	NW	NW	NW	NW	NNW	N	N	N	N	NNE	N	11
NE	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	12
SE	WSW	W	WNW	NW	NW	NW	NNW	NNW	N	N	N	N	13
NE	W	W	WNW	WNW	NW	NW	NNW	NNW	NNE	NNE	NE	NNE	14
NE	WNW	WNW	NW	NW	NW	NW	NNW	NNW	N	N	NE	N	15
NE	SW	SW	SW	WSW	W	NW	NW	NNW	N	NNE	NE	NNE	16
NE	NE	W	W	W	W	WSW	WSW	SW	SE	SE	SE	E	17
SSE	S	SSW	SSW	SSW	SSW	SSE	SSE	SSW	SSW	SSW	SSE	SE	18
NNW	NW	NW	NW	NW	NW	NNW	NNW	N	N	N	N	NW	19
NW	NW	NW	NW	NNW	NNW	N	N	N	N	N	N	NNW	20
NW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	21
NW	NW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	22
WNW	NW	NW	NW	NNW	NNW	N	N	N	N	N	N	N	23
E	WSW	W	WNW	WNW	WNW	NNW	NNW	N	NNE	NE	NE	NNE	24
ENE	WSW	W	WNW	WNW	WNW	NW	NNW	N	NNE	NE	NE	NE	25
WSW	WSW	W	WNW	WNW	NNW	NNW	NNW	N	N	N	NNE	ENE	26
WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	N	N	N	N	N	27
WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	NNW	28
WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NW	NNW	N	ESE	NW	29
NW	WNW	WNW	WNW	NW	NW	NNW	NW	NW	NW	NW	NNW	N	30
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	31
NNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	Mean direction.

AIR TEMPERATURE, 1927.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	72·7	72·3	71·6	71·5	71·5	71·0	70·3	71·0	73·6	76·0	79·0	81·5	**82·5**	82·1	81·1
2	73·5	72·6	72·4	72·4	72·0	71·5	72·1	72·2	73·8	76·3	78·0	79·4	79·5	79·5	79·4
3	73·7	73·7	72·6	71·9	70·6	70·6	71·0	71·8	74·0	76·2	77·6	77·8	78·5	78·4	79·0
4	73·0	72·4	72·4	71·9	70·8	70·5	70·4	70·3	72·9	75·0	76·3	77·2	77·7	78·4	78·4
5	69·8	69·3	69·2	68·8	68·2	67·6	68·0	69·0	70·7	72·1	74·8	75·9	77·3	77·3	77·3
6	69·0	68·2	68·3	68·3	68·7	69·2	68·6	68·6	69·9	72·1	74·1	75·2	75·8	76·7	77·4
7	72·0	71·8	70·4	69·3	68·9	69·0	68·5	68·7	70·5	72·3	74·5	76·1	77·0	77·4	77·5
8	69·5	69·1	68·2	67·6	67·5	67·5	67·5	68·2	69·6	71·3	73·0	74·2	74·5	75·2	74·6
9	67·5	67·0	66·2	65·5	65·6	65·1	64·2	64·5	69·0	69·6	71·9	73·8	74·5	75·3	75·3
10	68·3	68·5	67·6	67·8	67·6	67·8	67·5	67·8	69·7	72·0	74·7	77·5	78·2	78·2	78·5
11	71·2	71·2	70·5	69·9	68·9	68·0	67·7	69·0	70·1	72·5	74.3	75·2	76·4	77·5	77·6
12	70·3	69·6	68·1	67·5	67·0	66·7	65·6	65·7	68·0	71·0	73·7	75·5	76·5	76·6	76·5
13	67·5	66·8	66·5	66·6	66·8	66·7	66·4	66·8	69·2	71·5	73·9	76·3	77·8	79·4	80·4
14	69·4	69·0	68·8	69·0	68·6	68·7	67·6	68·9	70·4	71·5	73·8	75·9	76·8	77·0	77·5
15	68·8	68·7	68·4	67·6	68·0	67·9	66·7	66·6	69·2	70·6	72·8	73·8	75·0	76·0	76·2
16	67·7	67·9	67·5	66·4	65·8	65·5	65·7	66·8	68·5	71·1	72·8	74·8	76·5	76·8	76·6
17	68·2	67·7	67·4	65·9	65·5	65·0	64·5	66·7	68·9	70·8	73·6	75·6	78·0	78·4	79·5
18	72·8	71·9	71·8	71·5	71·4	70·7	69·9	70·8	72·4	74·0	77·0	79·0	79·5	80·3	80·5
19	72·0	70·8	70·1	70·3	70·5	70·2	69·6	69·8	70·9	72·5	74·4	75·8	76·9	77·3	77·5
20	67·5	67·9	68·9	69·1	68·5	67·7	66·5	65·9	68·1	71·0	74·0	76·3	77·0	77·5	77·0
21	67·3	67·3	66·6	66·0	65·3	65·1	65·1	65·3	67·3	68·4	70·6	73·9	74·7	75·1	75·5
22	66·9	66·1	66·0	66·5	66·1	65·9	66·4	66·7	67·9	69·5	71·9	73·6	74·5	76·3	76·4
23	67·9	67·5	67·6	67·3	66·2	66·2	65·1	65·2	67·5	70·5	73·3	75·3	76·5	77·5	77·0
24	67·4	66·9	66·5	65·7	64·9	64·4	**63·8**	64·0	67·0	70·1	73·0	74·9	75·2	76·2	77·0
25	68·8	67·9	67·6	67·5	67·5	67·3	68·9	68·6	71·0	73·9	76·5	78·0	77·9	78·0	77·8
26	70·5	70·3	69·5	68·9	68·2	68·4	67·9	68·4	71·5	73·5	75·5	76·6	78·6	78·5	78·4
27	70·2	69·3	68·7	68·8	67·6	67·3	66·7	66·9	70·3	72·8	74·4	76·4	77·4	78·5	78·8
28	70·3	69·1	68·3	68·0	67·0	66·8	67·4	68·7	70·9	72·5	75·2	77·9	79·2	79·5	80·1
29	70·5	70·0	69·8	69·3	68·9	68·7	68·3	68·5	71·2	73·4	76·7	78·2	78·7	78·1	78·6
30	70·7	71·3	69·8	69·0	68·4	67·8	67·6	67·9	71·3	73·5	75·3	76·9	78·9	79·1	78·5
31	71·5	71·6	71·0	69·5	68·9	69·0	69·9	69·7	72·2	74·1	76·3	78·6	80·7	80·3	79·2
Mean . .	69·9	69·5	69·0	68·6	68·1	67·9	**67·6**	68·0	70·2	72·3	74·6	76·4	77·4	77·8	**77·9**
Variation .	−2·5	−2·9	−3·4	−3·8	−4·3	−4·5	**−4·8**	−4·4	−2·2	−0.1	+2·2	+4·0	+5·0	+5·4	**+5.5**

FEBRUARY.

1	71·8	71·0	69.5	69·1	67·9	67·8	67·9	68·9	72·2	75·0	77·2	79·3	79·7	81·4	81·3
2	71·6	71·3	70·7	70·1	70·2	69·6	69·4	69·5	72·2	75·2	79·0	81·7	81·6	82·4	81·9
3	73·1	73·5	73·5	72·9	72·0	71·6	70·4	71·1	74·0	76·3	78·6	79·0	79·5	82·0	82·6
4	73·9	72·9	72·2	72·9	72·8	72.3	71·6	71·6	73·7	75·9	76·9	78·2	79·7	80·3	80·5
5	72·6	72·5	71·9	71·2	71·3	71·7	70·4	70·2	73·0	74·8	77·4	77·2	78·1	78·8	78·9
6	70·8	71·5	71·9	72·0	71·1	70·5	69·8	69·9	72·2	74·0	75·5	76·6	77·6	78·4	78·0
7	71·5	71·2	70·4	70·0	69·2	68·7	67·8	68·5	72·1	75·0	77·0	78·7	80·2	79·7	79·8
8	72·7	71·5	70·5	70·2	70·0	69·5	69·1	69·4	72·9	75·6	77·7	79·4	79·3	80·4	80·9
9	71·0	71·8	71·3	70·0	68·5	67·6	66·7	68·8	71·7	74·2	76·8	77·9	79·3	80·4	79·6
10	71·5	70·7	69·5	68·9	68·8	68·6	68·3	68·5	72·1	75·1	77·6	79·1	78·9	77·9	78·1
11	70·2	69·8	70·9	70·8	68·7	67·8	67·5	68·0	71·8	73·6	77·1	78·7	79·9	80·0	79·8
12	71·5	71·5	70·8	70·7	70·1	69·7	69·4	70·0	72·2	73·3	76·2	77·6	78·9	79·4	80·0
13	71·7	71·5	71·4	71·5	70·6	70·4	70·1	70·9	72·1	73·2	75·5	77·2	77.9	78·6	79·0
14	72·2	72·3	72·3	72·0	71·6	71·2	71·0	71·1	72·5	74·5	76.5	77·5	78·0	78·5	78·8
15	72·9	73·2	72·3	71·3	70·8	70·6	70·4	70·8	71·8	74·0	76·5	77·6	78·3	78·9	79·3
16	73·8	73·2	72·6	72·6	72·5	72·4	71·9	72·5	74·1	75·2	77·5	79·2	80·0	81·0	81·4
17	75·0	75·1	74·9	74·5	74·4	74·0	73·8	74·2	75·7	77·3	78·3	79·0	79·0	79·0	78·7
18	73·5	72·7	72·4	72·0	72·1	70·8	69·8	70·3	72·2	74·0	75·0	75·4	75·8	75·8	76·0
19	69·0	68·3	67·5	67·1	66·5	65·8	65·2	66·5	70·2	73·3	75·6	77·3	80·0	80·0	80·4
20	73·3	71·2	70·6	70·1	70·5	69·1	68·6	70·2	72·4	74·7	77·5	78·6	80·3	80·8	81·0
21	75·5	75·3	75·4	75·3	75·0	74·7	74·6	75·8	77·8	78·9	79·9	**82·7**	82·0	79·6	78·8
22	74·3	73·5	73·1	72·4	71·9	71·6	70·9	71·5	73·1	74·0	74·8	75·2	75·3	75·5	75·7
23	68·0	67·5	67·5	66·9	66·4	65·7	65·1	66·1	68·9	71·4	74·0	74·9	75·2	74·5	74·3
24	65·6	64·7	63·7	63·4	63·1	63·0	**62·5**	64·2	68·2	72·1	74·8	77·2	81·3	81.2	78·8
25	70·3	70·5	70·6	70·4	69·5	69·5	69·6	70·9	73·2	75·1	78·8	81·8	82·5	82·1	82·0
26	71·4	71·3	70·6	70·8	71·5	70·5	70·8	72·5	73·0	75·4	77·5	78·9	79·2	79·5	80·1
27	70·0	69·7	69·5	68·7	68·6	69·3	69·5	70·2	72·1	74·0	76·2	78·1	79·8	79·9	80·2
28	72·5	73·2	71 8	71·4	70·6	70.5	70·5	71·9	74·8	77·5	82·0	82·7	82·6	82·4	82·4
Mean . .	71·8	71.5	71·0	70·7	70.2	69·8	**69·4**	70·2	72·6	74 7	77·1	78·5	79·3	**79·6**	79·6
Variation . .	−2·5	−2·8	−3·3	−3·6	−4·1	−4·5	**−4·9**	−4·1	−1·7	+0·4	+2·8	+4·2	+5·0	**+5·3**	+5·3

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
80·6	79·6	78·0	77·0	76·5	76·3	75·7	75·1	74·6	**75·9**	13 28	**83·0**	6 54	70·0	1
78·5	77·7	77·0	76·0	75·9	75·5	75·2	74·3	73·7	75·3	12 5	80·0	5 6	71·4	2
79·0	78·1	77·1	76·0	75·5	74·4	74·3	74·2	73·6	75·0	14 50	79·7	5 58	70·5	3
78·3	76·9	75·1	74·2	73·5	72·7	71·8	70·6	70·3	73·8	12 58	78·7	7 30	70.0	4
76·5	75·1	73·7	72·7	72·4	72·2	71·7	71·5	70·6	72·2	12 48	77·8	6 0	67·5	5
77·5	77·3	75·9	73·9	72·6	72·0	71·5	72·3	71·9	72·3	16 7	78·2	1 40	68·1	6
76·9	75·7	74·8	73·8	73·0	72·4	71·6	70·3	69·5	72·6	15 20	78·2	6 0	68·4	7
73·9	73·3	72·0	71·1	76·6	70·0	69·5	68·6	67·7	70·6	13 50	75·8	6 30	66·5	8
75·3	74·1	73·1	72·4	72·0	71·6	70·7	69·9	68·9	70·0	14 40	75·8	6 58	64·0	9
78·7	77·5	75·8	74·6	74·3	73·5	72·5	71·7	71·2	72·6	15 18	79·0	6 52	67·4	10
77·5	76·1	74·7	73·4	73·1	72·3	71·2	70·3	69·9	72·4	15 25	77·7	6 30	67·5	11
76·9	76·0	74·5	72·3	72·6	72·4	71·5	69·8	68·4	71·4	15 37	77·5	6 54	65·4	12
79·8	78·5	76·9	75·7	74·8	73·4	71·9	71·4	70·0	72.3	14 24	80·5	6 40	66·0	13
77·3	76·3	74·6	73·6	73·4	72·5	71·8	70·6	69·7	72·2	14 55	77·6	6 54	71·5	14
76·1	76·3	74·8	73·5	72·5	71·8	70·9	69·6	68·5	71·3	13 45	76·8	7 10	66·1	15
76·2	75·0	73·6	72·6	72·2	71·5	70·8	69·5	68·6	70·9	13 18	77·4	4 52	65·4	16
79·3	77·5	75·8	74·6	74·1	73·7	72·9	72·0	72·5	72·0	14 18	79·8	6 30	64·4	17
79·9	79·0	77·4	75·3	74·0	72·9	72·3	72·1	71·8	74·5	14 12	81·1	6 36	69·5	18
77·5	76·5	74·9	73·5	72·5	70·6	69·8	69·5	68·5	72·6	14 55	78·0	23 58	68·0	19
76·5	75·2	73·5	72·3	71.5	71·4	70·6	69·8	68·4	71·3	12 24	77·6	7 16	65·6	20
75·3	74·0	72·5	71·4	70·9	70·4	69·7	67·7	67·1	**69·7**	14 16	76·0	5 5	65·0	21
76·4	75·4	74·0	72·8	72·2	71·4	70·5	68·6	68·0	70·4	14 40	77·2	2 6	65·6	22
77·1	75·8	74·3	73·2	72·3	71·0	69·6	68·4	67·6	70.8	13 52	78·4	7 10	64·5	23
76·7	75·6	74·4	73·5	73·0	72·2	71·3	71·1	70·1	70·6	14 18	77·4	7 10	**63·4**	24
76·9	76·1	74·9	73·8	73·5	73·4	72·3	71·5	71·3	72·5	12 38	78·5	5 14	66·9	25
78·0	76·4	74·8	73·9	73·5	73·0	72·6	72·0	71·2	72·9	14 40	79·0	6 50	67·5	26
77·8	76·7	75·2	74·3	73·9	73·3	72·3	71·5	71·1	72·5	14 36	79·4	7 15	66·5	27
79·7	78·6	76·9	75·4	75·2	74·7	73·8	72·3	71·7	73·3	14 32	80·6	5 12	66·5	28
77·7	77·0	75·7	74·5	74·0	73·5	73·3	72·1	71·2	73·2	12 28	79·5	7 20	68·0	29
78·6	78·7	77·0	75·7	75·1	74·4	73·9	72·5	71·8	73·5	12 55	79·5	6 36	67·5	30
78·2	77·4	76·5	75·1	74·5	73·9	73·0	71·8	71·0	73·9	13 24	81·5	5 28	68·5	31
77·6	76·6	75·1	74·0	73·4	72·7	72·0	71·1	70·3	72·4					Mean
+5·2	+4·2	+2·7	+1·6	+1·0	+0·3	−0·4	−1·3	−2·1						Variation

FEBRUARY.

80·9	79·4	77·5	76·3	75·6	74·8	74·2	73 6	72·6	74·4	13 54	82·2	6 4	67·5	1
81·0	79·8	77·9	76 5	75·9	75·2	74·5	74·4	73·6	75·2	11 35	83·2	6 0	68·5	2
82·1	81·2	79·5	77·7	76·7	75·8	75·7	75·1	74·3	76·2	14 2	83·0	6 45	70·0	3
80·4	79·5	77·5	75·6	75·2	74·8	74·0	73·3	72·9	75·4	13 2	80·6	7 10	71·5	4
78·5	77·6	76·6	75·4	74·8	74·5	73·5	72·8	72·4	74·4	14 13	79·5	7 30	69·8	5
77·8	77·7	76·5	75·3	74·9	74·0	73·5	72·3	71·4	73·9	13 48	79·0	7 30	69·5	6
79·9	78·4	76·7	75·6	75·0	74·5	73·7	72·8	72·0	74·1	13 2	81·2	7 0	67·6	7
79·7	77·5	75·8	74·4	73·6	73·0	71·7	70·3	70·3	74·0	14 50	81·7	7 10	68·6	8
78·8	77·5	76·5	75·5	75·3	74·3	73·5	72·8	71·9	73·8	13 8	80·5	6 25	66·6	9
77·7	76·5	75·2	74·1	73·5	73·2	72·8	71·9	71·4	73·3	11 40	79·6	6 54	67·8	10
79·4	78·1	77·3	76·2	75·4	74·7	73·3	72·2	71·8	73·9	13 54	80·5	6 35	66·9	11
79·8	78·9	77·5	76·2	75·3	74·0	73·3	72·4	72·1	74·2	14 32	80·5	6 25	69·2	12
79·3	78·4	76·7	75·1	74·4	73·4	72·7	72·7	71·8	74·0	15 30	79·4	7 0	70·0	13
78·6	77·7	76·5	75·3	74·8	74·4	74·3	73·4	72·5	74·5	15 8	79·4	6 40	70·8	14
79·8	79·5	77·8	76·3	75·8	75·4	75·1	74·9	74·4	74·9	15 30	80·5	6 38	69·9	15
81·0	79·9	78·1	77·0	76·4	76·0	75·7	75·2	75·0	76·0	15 38	81·5	6 40	70·9	16
78·3	77·4	76·1	75·6	74·5	74·3	74·4	73·8	73·6	75·9	13 8	79·5	6 52	73·5	17
75·5	74·4	73·1	72·0	71·5	71·5	70·8	69·8	69·5	72·7	14 30	76·2	23 20	69·4	18
80·3	78·9	77·0	75·1	74·5	73·3	71·7	72·4	73·5	72·9	14 22	80·8	6 8	64·5	19
80·2	78·9	77·8	76·9	76·8	76·8	76·9	76·6	75·8	75·2	15 28	81·2	6 0	68·0	20
79·0	76·8	76·3	75·6	75·4	75·0	74·8	74·5	74·4	**76·8**	12 30	83·2	6 0	74·1	21
75·4	74·5	73·3	72.3	71·9	71·5	71·0	70·6	69·7	73·0	15 10	75·8	23 55	69·3	22
74·0	73·1	71·3	70.3	70·1	69·5	68·8	67·3	66·4	**69·9**	12 42	75·3	6 30	64·5	23
77·6	76·7	75·3	74·6	74·4	73·8	73·5	72·0	70·0	71·3	13 12	83·4	6 54	**62·4**	24
81.7	80·3	77·5	76·0	75·3	74·6	73·5	72·5	71·8	75·0	12 20	**83·6**	6 30	69·4	25
80·2	79·4	77·5	75·6	74·5	73·1	72·0	71·3	70·4	74·5	15 35	80·6	5 54	70·3	26
80·0	78·5	77·5	76·5	75·9	75·3	73·7	72·9	72·7	74·1	15 24	80·8	3 45	68·5	27
81·9	80·5	78·8	77·6	77·0	76·4	75·4	74·5	75·3	76·4	12 52	83·7	6 35	70·4	28
79·2	78·1	76·6	75·4	74·8	74·2	73·5	72·8	72·3	74·3					Mean
+4·9	+3·8	+2·3	+1·1	+0·5	−0·1	−0·7	−1·5	−2·0						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	75·5	75·0	74·2	72·8	71·6	71·2	71·7	72·6	74·5	77·1	79·7	81·6	82·3	83·3	83·8
2	72·0	73·0	73·5	73·4	72·5	71·5	71·4	72·1	74·5	76·3	78·3	80·0	82·0	82·6	83·3
3	73·5	72·9	73·1	72·4	72·0	71·5	70·7	71·0	74·5	78·4	82·1	83·4	84·9	83·8	84·1
4	74·9	75·2	74·6	74·5	73·8	72·8	72·3	72·6	75·9	78·5	81·2	82·0	83·0	84·2	84·0
5	73·5	73·0	72·7	72·5	72·0	71·2	70·7	71·6	73·7	75·4	76·6	77·3	78·0	78·7	78·6
6	72·4	71·5	70·3	69·6	69·2	69·1	68·8	69·0	71·8	75·4	78·2	78·4	78·3	78·8	78·8
7	70·5	70·4	70·1	69·6	68·5	68·4	**68·0**	71·3	75·0	78·7	83·0	83·2	83·1	82·5	81·5
8	74·1	73·7	73·8	74·2	74·3	74·5	74·9	76·7	79·5	83·1	88·9	**92·6**	92·1	89·1	88·8
9	78·1	78·0	77·9	77·7	76·7	75·6	75·6	77·3	79·5	81·0	81·7	81·9	82·0	83·0	83·0
10	75·3	74·9	74·3	73·6	73·1	72·7	72·2	72·9	75·2	76·8	78·0	78·6	79·5	80·3	79·8
11	74·5	73·3	73·1	73·3	72·3	71·4	71·3	72·4	75·2	77·3	79·3	81·1	82·0	81·8	82·2
12	74·9	74·5	74·3	73·6	73·2	73·6	73·5	75·1	77·8	79·2	80·5	81·2	81·6	82·5	82·4
13	74·2	73·8	73·8	73·5	73·2	73·5	73·3	74·0	77·9	79·2	80·0	80·7	81·1	80·8	81·0
14	75·3	75·1	74·6	74·1	73·6	73·8	74·2	75·2	77·6	79·7	81·2	82·3	82·5	82·2	82·0
15	77·5	77·6	77·0	76·8	76·4	75·7	75·6	77·1	80·0	80·8	81·7	82·7	82·8	83·5	82·6
16	76·1	75·4	75·4	75·3	75·0	74·5	74·5	76·4	78·8	79·8	80·3	80·4	82·3	82·8	82·3
17	76·5	76·2	75·6	75·5	75·1	74·6	74·3	75·7	77·8	79·6	80·3	80·6	81·8	82·4	81·9
18	76·3	75·8	75·3	74·5	74·4	73·3	73·2	75·2	79·3	81·8	83·2	84·5	84·5	84·4	83·9
19	76·5	76·4	76·3	76·2	75·5	74·1	73·2	75·0	78·4	80·2	82·2	83·3	82·9	83·3	82.5
20	76·8	76·8	75·9	74·8	73·5	73·1	72·8	74·9	78·8	80·4	81·1	82·1	83·1	83·3	83·7
21	73·4	73·0	72·5	72·2	71·6	71·5	71·1	72·7	76·4	78·4	81·1	81·8	81·9	82·5	82·7
22	75·5	75·2	74·6	74·2	73·5	73·0	72·6	74·1	76·4	78·1	80·0	80·9	82·6	83·3	84·0
23	75·1	74·5	73·9	74·5	73·6	73·1	73·8	75·4	77·3	78·4	79·6	81·2	82·0	82·8	83·5
24	75·5	74·9	74·5	74·3	74·0	73·1	72·6	75·1	78·8	80·8	82·1	83·3	84·2	84·7	84·8
25	75·5	75·7	75·7	75·5	74·7	74·3	74·5	76·0	78·2	81·0	81·1	82·7	83·5	84·0	84·8
26	76·9	76·5	76·1	74·8	73·8	74·4	73·8	74·9	78·7	80·2	84·7	84·5	85·3	84·6	84·5
27	76·4	76·3	75·9	74·8	73·6	72·8	73·0	75·9	78·8	80·4	81·7	82·6	82·9	84·9	84·8
28	76·3	74·9	74·1	73·8	72·8	72·5	73·3	75·9	78·2	78·2	82·4	83·4	84·6	84·9	85·3
29	75·0	75·5	75·4	74·8	74·0	73·5	73·3	75·7	77·4	78·7	80·4	81·2	82·5	84·3	84·6
30	76·4	75·8	74·7	74·4	74·0	73·8	73·8	75·5	78·3	80·3	81·5	82·0	82·8	83·0	82·7
31	76·6	75·8	75·0	74·3	73·9	73·8	73·9	76·8	79·7	81·9	83·5	84·2	84·3	84·2	83·9
Mean .	75·2	74·9	74·5	74·0	73·4	73.0	**72·8**	74·4	77·2	77·2	81·1	82·1	82·8	**83·1**	83·1
Variation .	—2·6	—2·9	—3·3	—3·8	—4·4	—4·8	**—5·0**	—3·4	—0·6	—0·6	+3·3	+4·3	+5·0	**+5·3**	+5·3

APRIL.

1	77·2	77·0	76·6	75·8	75·0	**74·4**	74·6	76·9	80·2	81·6	83·1	84·0	84·3	84·8	84·6
2	78·0	77·8	77·8	77·2	76·5	75·6	75·7	77·6	80·9	82·5	83·9	85·0	85·6	85·5	84·8
3	76·4	76·4	76·3	76·2	75·5	75·5	75·6	76·8	78·8	80·0	81·3	82·2	83·3	83·4	83·8
4	77·5	77·6	77·8	77·5	77·5	76·8	76·3	78·5	81·2	83·2	85·6	86·5	87·0	88·9	88·2
5	79·5	79·6	79·5	78·9	78·6	78·5	78·4	79·8	81·8	83·4	84·0	85·2	85·3	85·3	85·4
6	76·7	76·5	76·0	75·5	75·1	75·2	75·8	77·8	79·7	80·9	81·6	82·4	82·5	84·0	83·8
7	76·7	76·2	76·5	76·2	75·9	75·5	75·6	77·8	79·3	80·9	81·8	82·8	84·0	84·5	84·8
8	78·2	78·0	77·7	77·5	76·6	75·9	76·5	78·5	80·8	81·7	82·4	83·4	83·9	84·6	84.5
9	76·9	76·7	76·6	76·9	77·9	77·5	77·6	79·1	82·2	84·8	86·7	87·5	87·7	87·5	86·6
10	77·7	77·5	77·5	77·5	77·0	76·7	76·8	78·4	80·4	81·5	82·3	83·4	84·4	84·7	83·8
11	77·7	77·4	76·6	75·6	75·1	74·7	75·7	77·9	80·1	81·7	82·4	83·3	84·7	84·9	85·5
12	78·2	78·4	77·8	77·7	77·0	76·6	76·8	78·4	82·4	82·5	84·0	84·2	84·6	84·8	84·6
13	77·7	77·7	77·5	77·5	77·3	76·9	77·5	79·0	81·4	83·1	85·1	86·3	86·6	86·8	86·6
14	79·3	78·8	78·2	77·6	77·4	76·4	76·6	79·1	82·1	84·1	85·4	86·3	87.1	87·2	87·3
15	80·3	80·1	79·0	79·0	78·7	78·2	78·5	81·7	84·9	86·4	86·6	86·8	87·4	86·8	85·7
16	78·9	78·6	78·3	78·4	77·8	77·5	77·8	80·0	82·5	84·4	84·6	85·4	85·6	85·8	85·3
17	77·6	77·4	76·7	76·5	76·5	76·2	75·9	77·8	79·8	80·3	81·7	82·6	83·0	83·5	83·0
18	77·5	77·2	76·6	76·5	76·2	75·8	76·8	78·0	80·1	81·7	82·6	83·6	84·0	84·5	84·5
19	77·9	77·6	77·5	77·5	77·4	77·4	77·6	79·1	80·4	81·0	82·5	83·5	84·5	85·1	85·0
20	76·9	76·7	76·6	76·7	76·6	76·3	76·6	78·2	80·2	82·0	84·2	84·5	85·1	85·3	85·0
21	78·8	78·7	78·6	78·6	77·8	77·5	77·5	79·2	82·2	84·0	84·9	85·4	85·0	85·4	85·3
22	80·4	79·2	78·2	78·2	78.1	77·7	78·2	81·2	83·4	85·4	86·0	86·4	87·6	88·5	88·5
23	80·0	79·5	79·1	78·3	77·9	78·4	78·7	81·6	82·9	84·4	84·9	86·2	86·5	86·3	86·0
24	78·5	78·5	78·8	78·9	78·9	78·9	78·9	81·1	81·5	83·1	84·5	84·6	85·0	85·1	85·0
25	77.2	77·3	77·5	77·3	76·7	77·6	77·8	79·5	81·5	82·9	85·4	86·6	87·6	87·4	86·8
26	77·9	78·6	78·5	78·4	77·9	76·7	77·1	79·6	81·9	83·4	84·7	85·2	85·9	85·8	85·7
27	79·6	79·4	79·7	79·6	78·6	78·5	79·1	82·2	83·5	84·3	85·3	85·6	86·4	86·8	86·9
28	80·7	80·9	80·6	79·8	79·4	78·9	79·8	81·8	85·1	86·6	87·4	87·6	88·6	88·9	**89·5**
29	81·5	81·0	80·0	79·2	78·9	78·5	79·0	81·3	83·3	84·6	86·4	87·0	88·0	**88·3**	88.2
30	79·5	79·4	78·8	78·4	77·8	77·5	77·9	79·7	81·5	82·7	83·9	85·0	85·8	86·4	**86·5**
Mean .	78·4	78·2	77·9	77·6	77·3	**76·9**	77·2	79·3	81·5	83·0	84.2	84·9	85·6	**85·9**	85.7
Variation .	—2·7	—2·9	—3·2	—3·5	—3·8	**—4.2**	—3·9	—1·8	+0·4	+1·9	+3·1	+3·8	+4·5	**+4·8**	+4·6

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
83·1	81·1	78·9	77·6	76·6	75·8	74.7	73·4	73·0	76.7	14 38	84·5	5 25	71.0	1
83·8	82·5	81·0	79·5	78·7	77·5	76·4	75·3	74·4	76·9	15 40	83·9	6 52	70·9	2
83·2	82·4	80·0	78·8	78·0	77·3	75·9	74·8	74·5	77·2	12 38	85·5	7 0	70·5	3
83·0	81·0	78·5	76·5	75·6	74·6	74·3	73·3	73·5	77·1	14 8	84·7	7 10	71·9	4
78·7	77·9	76·2	74·5	74·0	73·5	73·3	72·8	72·5	74·5	15 50	79·4	6 40	70·6	5
78·7	78·0	76·3	75·0	74·3	73·3	72·5	71·5	70·8	73·7	13 52	79·6	7 5	**67·5**	6
81·0	80·0	79·1	77·8	77·4	76·8	75·8	74·8	74·5	75·9	10 50	84·6	6 40	67·5	7
86·8	86·0	83·0	80·5	79·6	79·3	78·9	78·7	78·5	**80·9**	11 48	**93·5**	1 16	73·5	8
82·0	81·0	78·9	77·0	76·2	75·6	75·5	75·4	75·5	78·6	13 18	83·6	23 55	74·8	9
79·9	79·9	78·9	77·6	77·4	77·0	76·4	76·0	75·0	76·5	13 32	80·8	6 38	72·1	10
82·2	80·7	79·0	77·7	77·2	76·8	76·3	75·7	75·2	76·7	15 28	83·5	7 0	71·2	11
81·6	80·9	79·2	77·4	76·9	76·2	75·5	74·8	74·4	77·3	13 38	83·0	5 0	73·0	12
80·7	79·0	77·7	76·4	75·9	75·7	75·7	75·5	75·5	76·8	12 32	82·4	6 28	73·1	13
80·7	80·0	79·0	78·0	77·9	78·0	78·0	77·8	77·1	77·9	13 38	83·5	4 18	73·5	14
82·6	81·6	80·1	78·7	78·2	77·8	77·7	77·2	76·8	79·1	13 50	84·3	6 8	75·5	15
81·4	80·6	79·2	77·6	77·5	77·6	77·5	77·0	76·7	78·1	13 5	83·6	6 0	74·4	16
81·7	81·0	80·0	78·6	78·6	77·6	76·6	76·9	76·6	78·1	14 49	83·3	6 20	74·2	17
83·4	82·5	81·4	79·1	78·5	78·3	77·4	76·2	76·2	78·9	12 20	85·3	6 15	73·0	18
82·6	82·5	81·7	80·1	79·2	78·9	78·1	77·1	77·4	78·9	12 56	84·5	6 18	73·1	19
83·4	82·3	80·7	79·0	78·0	76·6	76·1	74·5	74·5	78·2	14 5	84·5	6 15	72·7	20
82·8	81·8	80·1	78·0	77·4	76·6	76·5	76·2	75·9	77·0	15 0	84·2	6 19	70·6	21
83·6	83·2	81·5	79·6	78·7	78·0	77·5	76·8	75·9	78·0	14 55	84·5	6 0	72·5	22
83·0	82·4	81·2	79·3	78·5	77·7	77·5	77·2	76·9	78·0	14 58	84·5	5 56	73·0	23
83·9	82·6	81·2	79·6	78·5	77·6	76·9	76·1	75·5	78·5	14 5	85·7	5 56	72·4	24
84·9	84·0	82·8	81·5	80·5	79·8	78·7	77·6	77·5	79·3	15 25	85·0	5 45	74·0	25
84·4	83·3	81·9	80·2	79·5	78·8	78·2	77·6	76·8	79·4	12 32	85·8	6 38	73·4	26
84·6	84·3	82·8	81·0	80·1	79·0	77·3	76·5	76·7	79·0	13 48	85·7	6 24	72·7	27
84·6	83·2	81·2	79·3	78·6	77·8	77·2	75·7	75·2	78·6	14 5	85·8	5 56	72·4	28
84·0	82·7	80·9	78·8	78·3	77·7	77·5	77·0	76·7	78·3	14 18	85·6	6 5	73·2	29
82·2	81·8	80·8	79·4	78·8	78·4	78·0	77·5	77·2	78·5	13 31	83·7	6 5	73·5	30
83·3	82·0	80·5	78·8	78·2	77·6	77·5	77·5	77·4	78·9	14 20	84·5	5 24	73·5	31
82·6	81·7	80·1	78·5	77·8	77·2	76·6	75·9	75·6	77·8					Mean.
+4·8	+3·9	+2·3	+0·7	0·0	—0·6	—1·2	—1·9	—2·2						Variation.

APRIL.

84.4	83·0	81·8	80·2	79·5	78·7	78·3	78·6	78·4	79·7	13 25	85·4	6 5	**74·3**	1
84.5	83·0	81·8	79·2	78·4	77·7	77·3	77·0	77·1	80·0	13 2	86·0	6 5	75·4	2
83·0	82·4	81·2	80·0	79·2	79·0	79·1	78·4	77·7	79·2	13 2	84·5	5 10	75·4	3
87.1	86.1	83·8	81·6	80·5	80·3	79·8	78·9	79·1	81·6	13 12	89·5	6 5	76·2	4
84.6	83·8	82·2	80·8	80·5	79·7	79·3	78·6	77·7	81·3	13 38	86·0	23 56	77·4	5
83.2	82.1	80·4	78·8	78·3	78·0	77·3	76·9	77·1	**79·0**	13 58	84·5	5 6	75·0	6
84.7	84.2	82·9	81·0	81·2	79·6	79·5	79·2	78·6	79·9	14 45	85·7	6 5	75·4	7
84.6	82.9	81·6	80·1	79·4	79·2	79·0	78·2	77·5	80·1	13 35	85·5	5 56	75·7	8
85.8	84.2	82·5	80·5	79·8	79·1	78·7	78·4	78·4	81·2	12 40	88·6	2 56	76·5	9
82.9	81.8	80·9	79·3	78·7	78·5	78·0	78·1	77·9	79·8	13 28	85·5	6 15	76·5	10
85.2	84.1	82·5	80·7	80·5	79·8	79·5	78·7	78·4	80·1	14 23	86·4	5 56	74·6	11
84.3	83.5	81·8	79·7	79·2	78·9	78·7	78·3	78·1	80·4	12 58	85·5	5 20	76·5	12
85.8	84.0	83·4	82·2	81·3	80·0	79·7	79·6	79·5	81·4	13 18	88·2	5 0	76·8	13
86.9	85.9	85·2	83·8	83·3	82·4	81·2	80·9	80·8	82·2	14 55	87·7	6 0	76·0	14
85.2	84.5	83.8	82·6	81·2	79·8	79·8	79·6	79·4	82·3	12 30	88·3	6 6	78·1	15
84.0	83.6	81·0	79·3	78·6	78·5	78·5	78·4	78·2	80·9	12 10	86·7	5 56	77·4	16
82.6	82.0,	81·0	79·3	78·6	78·4	78·4	78·0	77·7	79·4	13 52	84·5	6 10	75·4	17
84.4	83.7	82·2	80·9	79·8	78·7	78·6	78·5	78·4	80·0	14 10	85·4	5 10	75·7	18
84.6	83.8	82·2	79·9	79·3	78·6	78·4	77·7	77·4	80·2	14 34	85·6	5 56	77·0	19
84.2	83.4	82·0	80·8	80·3	79·9	79·5	79·4	79·0	80·4	13 52	86·5	5 30	76·2	20
85.2	84.4	83·2	81·7	81·3	80·7	80·5	80·5	80·5	81·5	13 55	86·5	6 0	77·4	21
88.0	87.1	85·3	83·8	82·8	82·2	81·4	80·6	80·6	82·9	13 40	89·2	5 56	77·5	22
85.8	84.4	82·9	82·0	81·3	80·5	80·0	79·5	78·9	81·9	12 18	86·7	5 12	77·8	23
84.6	84.0	83·0	81·5	80·6	79·8	78·9	78·1	77·6	81·2	14 22	85·7	23 50	77·4	24
85.7	84.6	83·2	81·5	80·6	80·5	80·4	79·8	79·3	81·4	12 50	88·5	4 40	76·5	25
85.5	84.8	83·5	82·1	81·3	80·6	80.5	80·4	79·8	81·5	12 40	86·8	5 56	76·5	26
86.7	85.8	84·4	83·2	82·0	81·6	81·5	81·4	80·8	82·6	14 12	87·3	5 56	78·2	27
89.4	89.0	87·6	85·9	84·7	83·9	82·9	82·5	81·9	**84·3**	13 18	**90.2**	5 56	78·2	28
88.1	86.9	85·1	83·0	81·2	79·8	79·6	79·5	79·5	82·8	13 2	88·5	5 56	78·4	29
86.4	85.9	84·6	82·9	82·3	81·7	81·5	81·5	81·4	82·0	13 40	87·4	5 10	77·2	30
85·2	84·3	82·9	81·3	80·5	79·9	79·5	79·2	78.9	81·1					Mean.
+4·1	+3·2	+1·8	+0·2	—0·6	—1·2	—1·6	—1·9	—2·2						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	81·4	80·7	80·5	80·1	79·9	79·9	80·5	81·8	84·4	85·6	85·5	86·4	87·1	87·5	87·6
2	81·6	81·5	81·1	80·5	79·8	80·0	80·6	81·4	82·7	84·5	85·5	86·6	87·5	87·8	88·5
3	80·3	79·9	79·4	78·8	78·8	78·5	78·7	80·2	82·2	84·0	85·0	86·0	86·8	87·5	87·2
4	80·0	79·8	79·4	78·7	77·9	**77·5**	78·4	80·3	82·1	83·6	84·5	86·5	87·5	87·8	87·8
5	79·9	79·7	79·5	78·7	78·1	77·5	78·9	80·8	82·3	83·9	85·0	86·1	87·2	87·5	87·3
6	79·9	79·5	79·0	78·5	78·6	78·4	78·8	80·8	83·0	84·5	85·2	86·2	86·7	87·2	87·4
7	81·5	81·4	80·8	80·7	80·1	79·7	80·6	82·2	84·3	86·0	86·7	87·2	87·8	88·8	88·1
8	81·8	81·6	81·5	80·6	79·8	79·6	80·9	83 1	84·8	85·4	86·8	87·8	88·5	84·4	88·0
9	82·0	82·1	81·5	81·5	81·5	81·5	81·8	83·0	84·3	85·5	86·7	87·5	88·2	88·8	88·5
10	81·8	81·7	81·5	81·6	81·5	81·4	81·8	82·9	84·9	85·9	86·9	87·6	88·2	89·6	89·2
11	82·8	82·4	82·0	81·7	81·6	81·3	81·8	83·6	85·4	86·5	87·2	87·6	87·9	88·2	88·4
12	82·5	82·5	82·4	81·8	81·4	81·5	81·9	83·2	85·4	86·2	86·8	87·8	88·5	88·7	88·5
13	82·4	82·2	81·8	81·9	81·3	81·2	82·0	83·3	84·8	85·6	86·7	87·6	87·9	88·4	88·2
14	81·6	81·3	81·0	80·6	80·4	80·4	81·1	82·4	83·6	84·6	86·2	87·4	88·3	89·1	89·0
15	81·5	81·5	81·4	80·9	80·8	81·0	81·9	82·5	84·6	85·8	86·4	87·5	88·5	88·9	88·6
16	81·5	81·5	81·4	81·1	81·2	79·8	80·9	82·9	85·2	86·9	88·2	89·1	88·7	88·5	88·2
17	82·7	82·7	82·5	82·6	82·6	82·8	83·2	83·9	85·1	86·4	87·2	88·4	88·6	89·0	88·8
18	82·3	82·2	82·2	82·4	82·3	81·8	82·0	83·5	85·0	86·2	87·0	87·2	88·1	88·4	87 8
19	82·1	81·1	81·5	81·5	81·6	81·5	82·2	84·0	84·9	84·6	84·5	84·6	86·8	87·9	88·2
20	82·2	82·5	81·8	81·5	81·4	81·5	81·8	83·1	84·7	86·1	87·5	87·9	88·9	89·1	88·3
21	81·7	81·6	81·4	81·4	81·2	81·4	82·0	83·1	85·0	86·2	86·4	87·6	88·5	89·0	89·3
22	82·5	82·0	81·5	81·4	81·4	81·3	81·8	83·8	84·7	85·7	86·9	87·8	88·5	89·0	89·2
23	82·5	82·4	81·9	81·6	81·5	81·5	82·0	83·0	84·6	85·9	86·9	87·8	88·3	88·6	88·8
24	82·5	82·5	82·4	82·4	82·5	82·4	82·9	84·2	85·9	87·0	88·0	88·4	88·9	89·4	89·2
25	83·5	83·4	83·0	82·7	82·6	82·6	83·4	84·3	85·9	87·3	87·8	88·8	89·5	89·9	89·4
26	83·2	82·9	82·5	82·5	82·4	82·4	83·4	84·6	85·9	87·4	87·9	89·0	89·4	89·5	89·6
27	82·9	82·6	82·5	82·5	82·5	82·4	83·0	84·2	86·2	87·7	88·3	89·0	89·5	89·5	89·5
28	84·0	83·8	83·5	83·5	83·1	83·0	83·6	85·0	86·5	87·5	88·1	88·9	89·3	89·9	89·8
29	83·6	83·5	83·4	83·1	82·9	82·8	83·9	85·0	86·3	87·3	88·3	88·8	89·6	90·2	**90·5**
30	84·0	83·8	83·5	83·4	83·2	82·9	83·8	84·8	85·8	86·9	87·6	88·9	90·1	90·3	90·1
31	83·9	83·5	83·5	83·5	83·4	83·3	84·0	85·8	86·5	86·6	88·8	89·5	90·4	90·5	89·5
Mean .	82 1	82·0	81·7	81·4	81·2	**81·1**	81·7	83·1	84·7	85·9	86·8	87·7	88·4	**88·8**	88·7
Variation .	—2·3	—2·4	—2·7	—3·0	—3·2	**—3·3**	—2·7	—1·3	+0·3	+1·5	+2·4	+3·3	+4·0	**+4·4**	+4·3

JUNE.

1	83·6	83·5	83·3	83·0	82·5	82·5	83·6	84·5	86·3	87·3	88·4	89·6	90·6	91·2	**91·4**
2	84·9	84·8	84·8	84·6	84·5	84·5	48·5	85·2	86·5	88·5	89·5	89·3	88·9	89·0	88·5
3	84·8	84·5	84·4	83·8	83·6	83·4	84·1	84·6	87·4	89·0	89·3	89·4	89·5	89·6	89·5
4	84·2	83·6	84·4	82·4	81·5	81·6	82·6	84·1	86·0	88·2	89·0	90·1	89·6	89·8	89·9
5	84·5	84·5	84·4	84·5	84·4	84·4	84·5	84·5	84·2	84·0	86·8	89·0	90·1	89·5	88·6
6	83·9	83·5	82·7	82·6	82·8	82·9	83·6	85·1	86·3	87·4	88·5	88·9	89·5	89.5	89·4
7	82·7	83·4	83·5	82·9	82·1	82·6	83·2	84·9	86·1	87·2	88·5	89·0	89·5	90·0	90·1
8	84·5	84·5	84·4	83·3	83·4	83·5	84·0	84·8	87·0	87·8	88·6	89·5	89·6	89·8	90·0
9	84·4	84·2	83·6	83·6	83·5	83·6	84·1	85·7	83·5	88·0	89·3	89·9	90·1	88·5	80·8
10	83·6	83·7	83·6	83·6	83·6	83·6	84·2	85·1	86·7	87·9	88·8	88·2	88·8	89·1	89·0
11	83·3	83·3	83·1	83·1	83·1	83·0	82·9	84·4	85·4	86·8	86·9	88·3	89·1	88·1	86·7
12	82·9	82·5	82·5	81·8	81·5	80·9	80·7	82·0	83·1	85·2	85·0	86·1	87·0	87·3	87·2
13	82·6	81·9	81·3	81·0	80·6	80·1	80·5	81·0	82·1	83·8	84·6	85·4	87·1	88·4	88·2
14	83·2	83·0	82·9	82·9	82·1	81·7	82·6	83·2	82·4	78·9	77·4	77·3	78·3	78·6	78·9
15	77·9	78·4	79·0	78·1	78·5	79·4	79·6	79·6	79·5	78·8	78·4	77·5	77·4	77·0	77·8
16	76·1	76·0	**75·0**	76·3	76·9	76·2	76·4	76·1	76·2	77·2	78·6	78·6	78·9	79·6	79·8
17	79·0	78·8	77·8	78·3	78·8	79·3	78·3	78·5	78·0	78·2	78·5	77·2	77·4	78·2	78·0
18	78·3	76·9	77·2	77·6	77·2	77·6	78·9	79·8	80·4	79·9	79·3	78·7	79·0	79·1	79·1
19	78·2	77·4	77·8	77·2	76·5	76·2	76·3	76·6	77·0	77·5	78·8	79·0	79·5	80·3	80·8
20	78·2	78·7	78·9	77·7	78·5	79.0	79·3	80·4	82·2	82·4	83·0	83·1	84·4	84·9	84·6
21	79·4	79·7	79·8	80·1	80·2	80·1	80·6	81·4	82·1	83·3	84·0	84·8	84·5	83·6	80·8
22	81·0	81·2	81·4	80·8	80·9	80·6	78·9	79·6	81·3	82·0	84·1	85·1	85·5	85·9	85·8
23	80·4	80·3	81·2	79·5	79·3	79·1	81·3	81·2	82·6	83·9	83·1	82·6	83·5	82·5	82·0
24	82·1	81·8	81·5	81·2	81·1	81·2	81·3	82·5	83·2	84·4	85·5	85·8	86·1	86·5	86·4
25	81·4	81·9	81·8	81·5	81·5	81·5	81·9	82·8	82·7	84·4	85·4	86·1	86·5	86·6	86·7
26	82·5	82·2	82·0	81·8	81·6	81·5	81·5	82·6	83·5	84·8	85·7	86·4	86·9	87·4	86·4
27	82·7	82·5	82·5	82·3	81·7	81·5	81·2	82·0	82·5	83·9	86·1	86·1	87·8	87·5	87·4
28	79·4	79·2	79·6	78·8	78·1	77·7	77·8	77·0	76·5	77·9	79·4	81·0	83·1	83·4	83·7
29	79·0	79·0	77·8	77·4	78·2	78·4	78·4	79·6	81·2	82·3	83·6	83·7	82·6	79·4	79·6
30	78·5	78·5	78·4	78·2	78·5	78·4	78·2	79·2	80·9	82·3	83·2	83·9	83·5	83·5	84·1
Mean .	81·6	81·4	81·3	81·0	**80·9**	80·9	81·2	81·9	82·9	83·8	84·6	85·0	**85·5**	85·4	85·3
Variation .	—1·3	—1·5	—1·6	—1·9	**—2·0**	—2·0	—1·7	—1·0	0·0	+0·9	+1·7	+2·1	**+2·6**	+2·5	+2·4

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15–16	16—17	17—18	18—19	19—20	20—21	21 22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
87·4	86·5	85·0	83·5	82·9	82·5	82·4	82·3	81·8	83·5	14 28	87·8	4 0	79·8	1
88·4	86·9	85·0	82·7	81·9	81·5	81·2	80·8	80·5	83·3	14 56	88·6	5 10	79·7	2
85·7	84·8	83·4	82·0	81·5	80·8	80·6	80·5	80·4	**82·2**	13 16	88·2	6 0	78·4	3
86·9	85·8	84·1	82·5	81·5	81·4	81·1	80·6	80·3	82·3	13 20	88·5	5 20	**77·4**	4
86·8	86.1	84·4	82·5	81·9	81·6	81·5	81·3	80·7	82·5	14 6	88·3	5 25	77·4	5
87.3	86·5	85·2	83·6	82·9	82·5	82·5	82·3	81·8	82·8	13 0	88·2	5 56	78·3	6
88·0	86·9	85·6	84·3	83·6	83·0	82·6	82·5	82·4	83·9	13 16	89·2	5 56	79.5	7
87·6	87·1	85·4	84·0	83·5	83·1	82·8	82·7	82·6	84·1	13 32	89·2	5 10	79·4	8
87·5	87·5	85·8	84·6	83·8	83·5	82·9	82·6	82·5	84·4	14 20	89·4	5 20	81·4	9
88·9	87·4	86·1	84·6	83·8	83·5	83·5	83·4	83·1	84·6	13 54	90·2	5 16	81·3	10
87·8	87·0	85·8	84·4	83·6	83·5	83·5	82·6	82·5	84·5	14 52	88·6	5 40	81·0	11
88·1	87·4	85·9	84·5	84·2	83·5	83·4	83·0	82·7	84·7	14 26	89·2	4 45	81·0	12
87·6	87·0	85·8	84·1	83·5	82·8	82·6	82·4	82·1	84·3	14 22	89·5	5 45	81·1	13
88·6	87·4	86·0	84·2	83·5	83·2	82·7	82·3	81·9	84·0	13 4	89·5	4 40	80·0	14
88·5	87·0	85·6	83·8	82·9	82·5	82·5	82·4	81·9	84·1	12 40	90·0	5 56	80·5	15
87·5	86·1	84·9	84·2	83·4	83·0	82·5	82·5	82·6	84·2	11 55	90·2	5 45	79·7	16
88·4	86·9	84·9	83·8	83·3	83·1	82·9	82·5	82·4	84·8	13 32	90·0	3 0	82·4	17
87·4	86·3	84·4	83·2	82·6	82·5	82·5	82·4	82·2	84·2	13 2	88·6	5 56	81·7	18
87·5	86·2	84·8	83·8	82·6	82·5	82·4	82·1	82·1	83·8	13 32	88·7	2 40	81·4	19
87·9	86·9	85·0	83·8	83·2	82·8	82·8	82·6	82·4	84·4	13 20	**90·6**	4 30	81·3	20
88·0	86·9	85·0	83·8	83·5	83·3	82·9	82·5	82·5	84·3	14 10	90·2	2 35	81·1	21
88·7	88·0	86·2	84·7	83·9	83·5	83·4	83·0	82·8	84·7	14 28	90·2	5 20	81·2	22
88·2	87·3	86·2	84·7	84·0	83·6	83·5	82·9	82·7	84·6	15 18	89·5	4 40	81·4	23
88·8	88·4	86·9	85·4	84·5	84·4	84·4	83·8	83·6	85·4	13 10	90·2	5 25	82·3	24
88·7	87·6	86·6	85·4	84·7	84·4	84·2	83·6	83·4	85·5	13 30	90·5	5 10	82·5	25
89·0	88·4	87·0	85·5	84·6	84·1	84·0	83·5	83·4	85·5	14 34	90·3	5 10	82·3	26
89·0	88·3	87·0	85·5	84·7	84·5	84·5	84·4	84·2	85·6	14 35	90·5	4 40	82·3	27
89·8	89·2	87·8	86·4	85·5	85·0	84·6	84·7	83·9	86·1	13 23	90·5	5 30	82·9	28
90·2	89·4	87·8	86·6	85·6	85·4	84·9	84·6	84·4	**86·2**	14 5	90·6	5 25	82·7	29
89·3	88·2	87·0	85·8	85·2	84·7	84·6	84·5	84·4	86·0	13 10	**91·5**	5 20	82·8	30
89·0	88.5	86.9	85·7	85·2	84·7	84·6	84·3	83·9	86·1	13 30	91·4	5 35	83·2	31
88·2	87·2	85·7	84·3	83·6	83·2	83·1	82·8	82·5	84·4					Mean.
+3·8	+2·8	+1·3	−0·1	−0·8	−1·2	−1·3	−1·6	−1·9						Variation.

JUNE.

90·9	88·5	87·4	86·6	86·1	85·6	85·5	85·7	85·6	**86·4**	14 58	**92·2**	5 30	82·4	1
88·3	87·9	86·7	85·9	85·4	85·1	85·0	84·9	84·5	86·3	10 0	90·2	6 10	84·3	2
89·5	88·2	87·2	86·1	85·5	85·5	82·6	81·8	83·9	86·1	13 0	91·3	21 40	79·5	3
89·5	88·4	87·3	86·3	85·5	85·5	84·6	84·6	84·3	85·9	11 38	91·1	4 25	81·4	4
88·5	87·6	86·6	85·9	85·5	85·5	84·1	84·0	84·0	85·8	12 40	90·3	9 2	83·2	5
88·9	88·5	87·1	86·2	85·0	84·5	84·4	84·4	84·3	85·8	13 10	90·2	2 50	82·3	6
89·6	88·6	87·5	86·1	85·5	85·5	84·5	84·6	84·5	85·9	15 4	91·1	4 10	81·0	7
89·8	89·0	87·9	86·4	85·5	85·5	85·1	84·9	84·5	86·4	13 44	91·0	3 56	83·0	8
89·5	89·4	88·1	86·8	85·7	85·5	85·3	83·9	83·5	86·4	12 8	91·2	22 20	82·6	9
88·8	87·6	87·6	86·1	85·5	83·9	83·3	83·2	83·3	85·8	10 55	90·1	20 40	82·5	10
85·7	84·9	84·8	84·7	84·5	84·2	83·9	83·4	83·4	84·9	12 32	90.2	6 5	82·4	11
86·7	86·2	85·5	84·8	84·1	83·8	83·8	83·7	83·2	84·1	14 20	87·6	5 56	80·2	12
85·7	85·3	85·1	84·8	84·5	84·5	83·9	83·5	83·4	83·7	14 20	90·2	4 40	80·0	13
79·1	80·4	80·9	81·4	81·7	80·0	78·6	78·3	78·4	80·5	8 40	83·5	11 30	76·0	14
77·5	76·3	77·2	77·2	77·2	76·8	77·0	76·9	76·2	**77·9**	7 34	80·0	16 50	75·5	15
80·2	80·6	80·6	80·1	79·2	79·6	78·0	77·8	79·2	78·0	18 10	80·9	2 20	**74·3**	16
77·8	78·2	78·6	78·1	78·7	78·6	78·5	78·4	78·6	78·3	5 20	79·6	11 20	76·6	17
78·5	78·3	78·2	77·7	78·0	78·2	78·3	78·7	78·6	78·5	8 40	80·8	1 56	76·4	18
80·9	81·0	80·5	80·5	80·5	80·2	79·3	78·7	78·2	78·7	16 5	81·4	5 50	76·0	19
84·5	83·8	83·1	82·0	80·5	80·7	80·1	78·8	79·0	81·2	14 5	85·3	3 6	77·1	20
80·5	82·9	81·9	81·5	81·9	81·9	81·6	80·8	81·0	81·6	11 38	85·2	0 0	79·0	21
85·3	84·5	83·3	83·2	82·9	82·5	81·7	81·9	81·9	82·6	13 56	86·5	6 20	77·8	22
83·4	83·3	83·6	83·4	82·9	82·8	82·6	82·3	82·2	82·0	10 30	85·0	5 5	78·5	23
85·9	84·9	84·8	83·6	83·5	82·8	82·7	82·5	82·5	83·5	15 20	87·0	6 20	81·0	24
86·7	86·4	85·3	84·1	83·5	83·4	83·0	82·8	82·7	83·8	14 0	87·1	0 10	81·0	25
85·8	86·5	85·8	84·8	84·0	83·6	83·6	83·5	83·1	84·1	14 14	87·5	5 56	81·4	26
85·4	84·5	84·2	83·6	83·5	82·7	81·9	82·4	80·8	83·6	14 10	88·4	23 55	80·4	27
82·2	82·3	80·2	81·6	81·2	80·6	80·2	79·5	79·3	80·0	14 35	84·1	7 44	76·4	28
79·3	78·6	78·0	77·4	77·8	78·2	77·5	77·5	78·3	79·3	12 6	84·3	3 0	77·0	29
84.2	84·4	83·7	82·5	82·1	81·0	79·6	79·7	78·8	81·1	16 0	84·6	2 15	78·1	30
85·0	84·6	84.0	83·3	82·9	82·6	82·0	81·8	81·7	82·9					Mean.
+2·1	+1·7	+1·1	+0·4	0·0	−0·3	−0·9	−1·1	−1·2						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	78·6	78·5	78·5	78·5	78·5	78·6	78·9	80·1	81·4	82·1	83·6	84·5	84·0	82·2	83·8
2	80·5	79·5	79·7	79·6	79·6	79·2	79·6	80·3	81·0	81·1	81·9	81·8	80·6	81·4	81·0
3	78·6	78·9	78·7	78·5	78·5	78·3	78·2	78·4	78·8	78·3	79·4	80·9	81·0	79·6	80·6
4	80·0	79·9	79·9	80·4	80·5	80·6	80·6	80·5	80·3	80·2	81·3	81·9	82·4	82·7	81·8
5	80·3	80·7	80·5	79·9	79·7	78·9	78·5	78·5	78·4	79·2	78·9	79·3	80·4	81·2	82·5
6	80·2	80·5	79·9	80·6	80·6	80·6	80·8	80·9	79·8	81·1	80·4	79·0	81·6	82·6	82·4
7	80·4	80·3	81·2	80·8	80·4	80·9	80·2	80·6	80·3	81·0	81·1	82·1	82·6	83·5	84·0
8	81·2	80·6	80·8	81·2	81·4	81·4	81·4	81·5	82·0	83·3	83·4	83·6	83·5	84·8	84·8
9	81·3	80·9	81·2	81·3	80·6	80·8	81·6	81·4	81·9	83·1	84·0	83·6	84·9	85·2	84·7
10	81·0	81·0	81·4	81·5	81·3	81·4	81·5	81·8	82·4	80·1	81·3	82·6	83·1	83·8	83 8
11	81·0	80·6	80·8	80·9	80·7	80·6	81·4	81·9	82·3	82·9	84·1	84·4	84·2	84·5	84·5
12	81·3	81·1	81·0	80·8	81·0	81·2	81·2	81·5	82·2	82·6	83·1	83·2	82·9	82·9	82·7
13	81·4	81·1	81·2	81·3	81·4	81·5	81·5	81·5	82·1	82·4	82·6	82·8	83·0	82·4	83·2
14	81·5	81·5	81·3	81·0	80·9	80·5	81·1	81·4	81·7	82·9	83·4	84·1	84·9	85·0	85·0
15	81·1	81·1	80·5	79·9	80·4	80·5	80·7	81·0	82·0	83·2	84·2	85·0	85·5	85·6	83·1
16	81·5	81·2	80·2	80·4	80·4	80·4	80·6	81·7	82·4	83·3	84·6	84·8	85·2	86·2	85·1
17	81·9	81·8	79·8	80·8	80·7	81·3	81·4	81·6	81·4	82·9	83·8	84·0	83·2	82·9	84·0
18	81·4	81·0	80·9	80·9	80·9	81·1	80·2	80·4	78·0	79·7	79·8	80·6	79·3	80·8	81·8
19	80·5	80·6	80·9	80·5	80·6	80·7	79·7	79·6	81·2	80·4	81·6	83·8	84·1	84·2	83·9
20	80·5	80·5	80·5	80·6	80·4	80·5	79·1	81·0	82·2	82·8	84·0	84·6	81·2	81·2	81·1
21	79·5	80·4	80·3	80·5	80·8	80·7	80·6	80·9	79·9	78·0	79·1	80·4	81·2	81·3	81·3
22	80·1	79·8	78·8	78·7	80·4	79·9	80·0	80·6	80·3	78·5	78·1	78·0	78·7	78·6	80·0
23	80·0	80·3	79·9	80·5	80·6	80·6	81·1	81·2	81·9	82·6	82·6	82·6	81·7	82·0	83·0
24	80·7	80·6	80·6	80·9	80·7	80·8	81·0	81·0	81·4	81·1	80·3	80·7	80·2	80·6	81·4
25	79·7	79·6	79·2	79·6	79·9	79·8	79·9	80·2	79·7	79·9	79·9	80·3	80·5	80·7	79·4
26	78·7	79.5	79·4	78·3	79·3	79·3	79·7	79·4	79·3	79·2	78·6	79·6	79·7	80·2	79·5
27	79·5	79·5	79·6	79·6	79·5	79·5	79·6	79·6	79·2	79·1	79·9	80·0	80·3	80·1	79·0
28	79·2	78·7	79·1	78·4	79·0	78·8	79·1	79·5	79·4	80·1	80·4	81·5	81·1	81·5	78·8
29	78·1	78·7	78·4	78·0	78·5	78·4	78·6	79·1	80·2	80·8	81·4	81·7	81·6	82·9	82·3
30	79·5	79·5	79·5	79·3	79·1	79·2	79·4	79·8	81·2	82·1	83·2	83·6	84·1	83·8	83·2
31	79·3	79.4	79·4	79·3	77·9	78·3	78·7	79·4	80·6	79·8	78·8	79·6	81·4	82·4	82·4
Mean . .	80·3	80·2	80·1	80·1	80·1	80·1	80·2	80·5	80·8	81·1	81·6	82·1	82·2	82·5	82·4
Variation. .	—0·6	—0·7	—0·8	—0·8	—0·8	—0·8	—0·7	—0·4	—0·1	+0·2	+0·7	+1·2	+1·3	+1·6	+1·5

AUGUST.

1	79·5	79·5	79·5	79·5	79·4	77·6	76·9	77·7	77·2	77·3	77·8	77·5	79·6	80·3	80·8
2	78·9	78·9	78·8	78·8	78·5	78·5	78·7	79·7	80·9	82·0	81·9	82·3	82·9	82·8	83·5
3	79·3	78·9	78·9	78·8	78·2	77·0	78·6	79·4	80·8	81·8	82·9	81·5	81·3	83·6	83·5
4	79·6	79·5	79·5	79·0	78·5	78·3	79·2	80·1	80·7	77·5	79·4	79·3	78·6	79.2	80·9
5	79·3	79·3	77·3	78·9	79·5	79·6	79·4	79·0	80·3	81·2	81·1	82·1	82·3	82·2	82·0
6	79·6	79·9	79·9	79·8	79·8	79·9	80·0	80·4	81·3	81·7	82·0	82·8	82·5	82·6	82·9
7	79·5	79·5	79·8	79·8	79·9	79·9	80·2	80·5	80·6	81·4	82·4	82·9	83·2	82·9	82·0
8	77·4	78·3	79·2	79·5	79·2	79·5	79·7	79·9	80·3	80·3	81·2	82·3	83·1	82·4	82·3
9	79·5	79·5	79·6	79·5	79·5	79·5	79·6	79·3	78·1	77·0	80·2	81·4	82·5	82·6	82·8
10	79·9	79·5	79·6	79·5	79·5	79·5	79·7	80·2	81·1	81·7	82·9	83·1	83·2	82·6	81·6
11	79·5	79·1	79·2	79·5	79·4	79·2	79·9	80·4	81·3	81·5	82·4	82·6	81·9	81·6	81·5
12	79·3	79·3	78·6	78·7	79·0	79·1	78·2	77·9	78·4	78·2	79·5	80·3	80·6	80·6	80·4
13	78·9	77·4	77·6	78·5	78·5	78·6	78·5	79·4	79·4	80·8	81·8	82·2	83·1	82·0	81·5
14	78·5	78·4	78·4	78·5	78·2	78·0	78·4	77·5	79·4	80·6	81·8	81·9	81·6	82·2	81·2
15	78·5	78·3	78·5	78·5	78·5	78·5	78·2	77·6	78·2	78·5	78·3	79·7	80·6	81·6	82·6
16	79·3	78 7	78·4	77·6	77·5	77·4	77·5	77·1	78·2	77·5	79·2	79·9	80·5	80·0	81·6
17	78·9	78·5	78·6	77·8	77·2	77·1	76·2	76·9	78·3	79·1	80·1	79·9	80·0	80·9	81·2
18	78·7	78·5	78·2	77·8	77·8	77·9	78·3	79·1	80·4	80·3	81·7	80·1	80·3	82·3	82·6
19	78·5	78·7	78·3	77·7	78·1	78·5	78·7	79·4	80·1	79·7	80·7	79·1	80·4	82·3	83·3
20	78·9	78·9	79·1	78·8	78·1	78·0	78·2	78·6	80·4	81·5	81·1	79·8	80·0	80·9	80·2
21	78·5	78·4	77·9	78·4	78·3	78·0	78·4	78·9	79·6	79·7	79·9	81·0	80·3	80·7	81·2
22	78·7	78·6	78 4	77 4	77·5	78·0	77·9	79·2	79·9	80·6	82·3	82·7	83·2	83·5	82·6
23	78·8	79·3	79·5	79·5	79·6	79·5	79·8	80·0	80·7	81·5	82·5	82·4	82·0	81·6	82·3
24	79·5	79·5	78·7	78·6	79·2	79·2	79·5	79·5	80·4	81·3	82·2	83·0	82·9	83·3	82·8
25	77·7	77·7	78·8	79·2	79·4	79·5	79·5	79·5	80·1	80·3	80·8	80·3	82·3	82·9	83·5
26	78·3	78·0	78·5	78·4	77·9	77·2	76·5	76·9	79·1	80·6	81·8	82·6	83·6	82·9	82·5
27	79·5	78·9	78·7	78·7	78·4	78·2	78·1	78·2	79·2	80·7	81·8	81·4	82·2	82·3	82·0
28	79·2	79·1	78·7	78·5	78·5	78·4	78·1	79·2	80·6	81·4	82·2	82·8	82·1	83·1	83·6
29	79·0	79·1	79·0	78·9	78·7	78·5	78·5	79·2	79·4	80·9	82·2	83·1	83·6	81·4	80·8
30	79·7	79·6	79·5	78·5	79·0	79·0	78·4	79·6	80·5	81·4	82·4	82·8	81·1	82·1	82·0
31	79·3	78·2	77·9	78·1	77·9	78·4	78·0	78·1	80·2	81·4	82·4	82·1	81·0	82·1	82·2
Mean . .	79·0	78·9	78·8	78·7	78·7	78·6	78·6	79·0	79·8	80·3	81·3	81·4	81·7	82·0	82·1
Variation. .	—0·9	—1·0	—1·1	—1·2	—1·2	—1·3	—1·3	—0·9	—0·1	+0·4	+1·4	+1·5	+1·8	+2·1	+2·2

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Hours.									Man.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
82·9	82·5	82·2	81·6	80·6	80·0	80·4	80·5	80·5	81·0	11 35	84·6	1 45	78·3	1
80·5	78·5	78·6	78·8	78·2	78·4	78·4	78·5	78·5	79·8	11 12	82·4	16 55	78·0	2
81·0	81·4	81·4	81·5	81·5	81·5	81·5	81·5	81·3	80·0	11 56	81·6	5 56	78·0	3
81·4	81·5	81·3	81·2	81·1	80·8	80·4	79·0	80·2	80·8	13 15	82·8	22 45	78·5	4
82·4	82·6	82·6	82·3	81·5	80·6	80·5	80·2	79·4	80·4	14 55	83·7	8 31	78·2	5
81·9	81·5	79·4	80·9	81·0	81·4	81·5	81·5	81·5	80·9	14 28	84·4	17 20	78·0	6
81·9	82·1	82·1	81·9	81·9	80·5	80·3	80·4	80·7	81·3	14 0	84·2	8 30	79·2	7
83·1	83·3	83·2	82·5	81·4	79·9	81·0	81·3	80·9	82·1	15 20	85·0	19 56	79·0	8
84·4	83·6	82·4	81·6	81·8	81·8	81·0	80·4	79·5	82·2	13 50	85·6	23 25	78·2	9
82·8	81·8	82·2	80·6	80·4	80·8	79·5	79·1	80·4	81·5	14 12	84·5	9 32	78·2	10
84·2	83·0	82·9	80·4	81·3	81·4	81·5	81·5	81·5	82·2	14 30	85·2	18 15	79·4	11
82·0	81·1	80·9	81·3	81·5	81·5	81·4	81·5	81·5	81·7	11 30	83·5	16 55	80·4	12
83·0	83·1	82·4	82·2	82·1	81·9	81·7	81·9	81·6	82·1	16 40	83·5	1 55	81·0	13
84·3	84·2	83·3	82·5	82·2	81·7	81·5	81·3	81·0	82·4	13 20	85·4	5 2	80·2	14
84·8	84·8	83·6	82·8	82·3	82·0	81 8	81·8	81.5	82·5	13 32	86·1	1 52	79·5	15
85·2	84·4	83·5	82·7	82·4	82·0	81·9	81·9	82·0	**82·7**	13 28	**86·4**	2 40	79·5	16
81·1	80·7	81·4	81·5	81·2	80·9	81·0	81·1	91·2	81·7	12 35	85·5	2 22	79·2	17
81·0	81·1	81·7	81·8	81·7	81·6	81·4	81·3	79·8	80·8	14 0	82·6	8 28	**77·4**	18
83·9	82·8	81·5	80·0	79 9	79·7	80·3	80·4	80·4	81·3	13 2	85·0	6 58	78·3	19
80·6	80·6	81·2	81·3	80·0	80·4	79·8	78·6	78·8	80·9	11 45	85·4	21 56	78·3	20
81·2	81·4	81·5	81·3	81·0	81·0	81·0	80·7	79·8	80·6	13 6	81·6	8 55	77·5	21
80·1	79·3	79·7	79·9	80·7	80·5	80·4	80·2	80·4	79·7	8 52	81·0	10 0	77·5	22
81·8	82·4	81·0	80·6	80·1	80·4	80·7	80·8	80·9	81·2	14 0	83·5	2 20	78·5	23
79·7	78·7	79·1	78·4	79·5	79·3	79·8	79·9	79·8	80·3	14 42	81·5	18 35	77·5	24
79·5	79·4	79·1	78·6	79·2	79·7	79·9	79·6	79·5	79·7	13 38	81·5	18 55	78·0	25
79·6	79·4	79·3	79·3	79·2	79·3	79·7	79·8	79·6	**79·4**	13 30	80·6	3 50	77·5	26
79·4	79·8	78·6	79·0	79·0	79·2	79·1	79·0	79·2	79·4	13 30	81·0	17 30	78·3	27
79·9	80·1	78·8	78·1	78·5	78·5	79·0	79·0	78·8	79·4	13 48	81·7	20 42	77·5	28
81·9	80·6	80·7	79·9	78·6	79·5	79·8	79·6	79·5	79·9	13 58	83·5	0 25	77·5	29
82·4	82·2	80·6	79·8	80·2	79·8	79·1	79·2	79·4	80·8	13 0	84.5	22 0	79·0	30
82·5	80·7	80·1	80·1	79·8	79·6	79·6	79·3	79·4	79·9	15 8	83·3	4 10	77·6	31
81·9	81·3	81·2	80·8	80·6	80·5	80·5	80·3	80·3	80·9					Mean.
+1·0	+0·7	+0·3	—0·1	—0·3	—0·4	—0·4	—0·6	—0·6						Variation.

AUGUST.

81·5	81·3	81·2	80·4	79·7	79·4	79·5	79·5	79·2	79·3	15 18	81·6	5 40	76·8	1
82·8	82·6	82·0	80·8	80·3	79·8	79·5	79·5	79·5	80·6	14 40	83·6	5 56	78·4	2
83·5	83·1	82·2	81·0	80·5	80·2	80·0	79·9	79·8	80·6	13 40	**84·0**	5 2	76·5	3
81·6	81·1	80·3	80·1	79·9	79·9	79·8	79·8	79·7	79·6	15 25	82·0	8 30	76·7	4
81·9	81·3	80·8	80·6	80·5	80·5	80·3	80·2	80·1	80·4	12 0	83·0	2 8	76·5	5
82·1	81·1	81·0	80·3	80·3	80·2	79·9	80·0	79·6	**80·8**	11 55	83·5	0 34	79·5	6
81·7	81·2	79·9	80·5	80·1	78·1	79·2	79·2	78·8	80 5	13 0	83·6	20 24	78·0	7
81·2	80·4	80·4	80·5	80·4	78·8	79·2	79·5	79·5	80·2	12 58	83·7	0 56	77·0	8
82·2	81·6	81·1	80·5	80·5	80·5	80·5	80·4	80·2	80·3	14 20	83·0	9 20	**75·4**	9
80·6	80·5	80·5	80·3	79·8	79·9	79·3	79·5	79·6	80·6	12 14	83·6	21 50	78·5	10
79·2	80·7	80·4	79·2	78·8	79·6	78·9	78·6	79·4	80·2	11 42	83·3	15 35	78·5	11
80·1	80·1	80·4	79·6	79·9	79·1	78·4	78·3	78·9	79·3	12 15	81·5	7 56	77·0	12
81·9	80·9	79·7	78·7	78·0	77·9	78·3	78·3	78·4	79·6	12 40	83·5	2 0	77·0	13
80·8	80·1	79·8	78·9	78·6	78·8	79·0	79·1	79·0	79·5	13 50	83·2	7 15	77·3	14
82·5	81·6	81·2	79·9	79·6	79·6	79·5	79·3	79·2	79·5	14 20	83·0	8 0	75·5	15
82·5	81·0	80·5	79·7	79·5	79·4	79·4	79·5	79·5	**79·2**	15 16	82·6	3 20	77·0	16
81·8	81·6	80·9	79·9	79·4	79·2	78·9	78·9	78·9	79·2	16 20	82·4	6 35	76·0	17
82·1	81·9	81·1	80·1	79·6	79·2	79·4	78·2	78·5	79·8	14 30	83·0	3 45	77·5	18
82·0	81·9	81·7	80·6	79·3	79·5	79·5	78·9	78·2	79·8	14 20	83·5	3 58	77·4	19
80·5	80·5	80·1	78·8	78·5	79·4	78·0	77·8	78·4	79·4	13 42	81·7	21 50	77·4	20
80·8	80·5	80·4	79·9	79·9	79·7	78·5	78·6	78·5	79·4	11 56	82·5	5 30	77·8	21
82·2	81·3	80·0	78·9	78·2	78·9	79·3	78·9	79·2	79·9	12 20	83·6	22 4	76·8	22
81·8	81·6	81·4	80·6	80·3	80·2	80·3	79·9	79·7	80·6	14 56	83·4	0 0	78·0	23
81·7	80·9	79·5	79·5	79·5	79·5	79·5	79·4	78·6	80·3	12 40	83·5	0 30	78·3	24
83·0	82·6	81·9	80·6	80·5	79·4	79·5	79·0	79·0	80·3	14 32	83·6	0 30	77·4	25
82·1	82·6	81·8	80·5	80·0	79·4	79·4	79·5	79·5	80·0	12 56	84·0	6 0	75·5	26
82·0	80·1	77·6	77·7	78·1	78·6	78·9	79·2	79·2	79·6	14 53	83·0	6 32	77·4	27
83·6	82·8	81·0	80·4	79·9	79·7	79·6	79·4	78·1	80·4	15 10	84·0	23 25	77·5	28
78·8	80.2	79·7	79·5	79·5	79·6	79·7	79·7	79·7	79·9	12 30	83·8	15 20	78·3	29
80·8	80·5	79·2	79·4	79·6	79·7	78·4	78·5	78·9	80·0	11 56	83·3	21 30	77·5	30
81·4	80·6	79·5	79·4	78·7	77·7	77·9	78·1	78·3	79·5	14 32	82·7	2 30	75·9	31
81·6	81·2	80·6	79·9	79·6	79·4	79·3	79·2	79·1	79·9					Mean.
+1·7	+1·3	+0·7	0·0	—0·3	—0·5	—0·6	—0·7	—0·8						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	78·8	78·1	77·8	78·3	78·5	78·1	78·0	78·9	78·8	80·1	81·6	81·9	82·6	78·6	77·4
2	79·2	79·5	79·4	79·1	79·3	79·4	79·5	79·8	80·6	81·7	82·8	81·2	81·5	83·0	83·9
3	79·5	79·4	79·4	79·2	79·0	78·9	79·3	80·3	81·5	82·2	83·5	83·9	84·1	82·8	84·0
4	79·9	79·8	79·6	79·5	79·4	79·2	79·5	79·6	80·3	81·8	82·9	83·8	84·4	84·5	84·9
5	79·0	78·9	79·0	79·2	79·2	79·5	79·5	80·2	81·4	82·5	83·5	84·1	84·3	85·1	85·0
6	79·5	79·5	79·1	79·0	78·9	78·9	79·2	80·5	81·9	82·3	83·5	84·4	8 ·9	81·9	82·6
7	79·3	78·9	78·9	79·0	78·8	78·8	79·0	79·2	79·7	81·0	82·6	83·6	83·9	83·8	83·8
8	79·1	79·2	79·1	79·3	79·5	79·4	79·8	80·5	79·9	78·3	81·3	82·7	84·1	84·3	83·2
9	78·9	78·7	78·5	78·3	78·5	78·5	78·8	79·6	80·6	82·4	83·4	84·0	84·5	84·6	84·6
10	79·2	78·5	79·2	78·4	78·4	77·9	78·2	79·0	80·1	82·3	83·4	83·5	83·8	84·6	84·9
11	79·8	79·4	78·9	79·0	78·7	78·5	78·6	79·9	81·3	82·4	82·3	83·2	84·2	84·6	84·5
12	80·5	80·5	79·9	79·5	79·5	79·5	79·8	81·1	81·6	82·9	83·1	84·7	85·4	85·5	85·4
13	80·0	77·9	78·8	78·7	78·9	78·7	79·2	79·6	80·9	81·9	82·3	83·2	84·3	84·2	85·1
14	80·7	80·7	80·6	80·5	80·4	80·2	80·6	81·8	8 ·7	84·0	85·1	86·0	85·1	84·6	83·6
15	78·6	78·6	78·0	78·0	78·1	78·5	79·2	80·4	81·1	82·6	82·1	83·8	84·4	85·1	85·2
16	79·4	79·0	78·8	78·6	78·4	78·4	78·6	80·5	82·2	83·0	83·9	85·0	85·6	85·9	85·8
17	79·4	79·1	79·1	78·6	78·0	78·1	78·6	80·5	82·2	83·4	84·4	84·0	84·6	85·1	84·6
18	81·4	80·9	80·5	80·5	79·5	78·5	78·9	79·8	81·3	82·4	82·8	83·7	85·0	85·9	**86·4**
19	79·0	79·1	79·1	78·9	78·5	78·5	78·4	79·9	81·3	81·9	82·4	83·2	83·8	84·0	84·4
20	78·6	78·9	79·0	79·1	79·0	79·2	79·7	79·5	79·6	80·7	82·1	82·8	82·2	82·4	83·4
21	78·6	78·5	78·5	78·5	78·6	78·5	78·6	79·7	81·3	82·2	83·2	83·3	82·1	83·0	83·6
22	79·5	79·4	78·9	78·7	78·5	78·5	78·6	80·3	81·6	82·8	83·5	83·8	82·2	82·2	83·6
23	78·0	78·0	77·5	77·5	77·4	77·5	77·6	78·0	78·7	79·4	80·8	82·2	82·7	83·2	82·1
24	79·5	79·5	78·9	78·6	78·4	78·1	78·4	79·1	79·4	80·6	82·1	82·6	83·9	83·4	83·5
25	79·6	79·6	79·7	79·7	79·5	79·5	79·7	80·9	82·8	83·3	83·6	83 9	84·7	85·3	84·5
26	80·1	76·2	75·3	74·9	74·9	75·6	76·4	76·4	77·3	78·6	80·6	81·5	82·3	84·2	84·4
27	80·2	79·2	77·2	76·8	76·7	77·3	77·9	78·9	80·4	81·3	82·3	83·3	83·8	84·5	84·7
28	78·9	78·8	79·0	78·7	78·0	78·2	78·0	78·8	80·1	79·8	80·6	81·1	81·1	80·8	80·3
29	77·6	77·5	77·5	77·2	77·0	**76·9**	77·5	78·0	79·2	80·4	81·8	82·3	82·4	82·5	82·6
30	79·3	78·5	78·7	78·8	78·6	78·6	78·5	78·7	79·6	81·3	82·6	83·3	84·2	84·6	84·9
Mean .	79·4	79·0	78·8	78·7	**78·5**	78·5	78·8	79·6	80·7	81·6	82·7	83·3	83·7	83·8	**83·9**
Variation .	—1·5	—1·9	—2·1	—2·2	**—2·4**	—2·4	—2·1	—1·3	—0·2	+0·7	+1·8	+2·4	+2·8	+2·9	**+3·0**

OCTOBER.

1	79·4	77·0	77·5	77·6	77·5	77·5	78·0	78·6	79·9	80·6	81·5	81·9	82·4	81·2	79.8
2	79·0	78·8	77·5	77·3	76·3	76·3	76·3	76·5	76·8	78·0	79·1	79·2	79·6	80·7	79·8
3	79·6	79·6	79·4	79·4	79·1	78·5	78·4	79·6	80·5	82·0	82·3	82·2	83·8	84·2	83·8
4	77·6	76·9	76·7	76·0	76·4	76·9	77·6	78·4	78·8	79·4	79·8	80·6	81·6	82·4	82·6
5	79·0	78·8	78·5	78·4	77·9	77·2	77·0	78·7	80·5	81·5	82·2	83·0	83·5	84·2	84·4
6	79·5	79·5	79·5	79·5	79·5	79·3	79·5	79·7	81·4	82·8	83·5	82·8	80·4	80·7	80·4
7	77·6	76·5	76·5	76·6	76·6	76·5	77·2	78·8	79·9	80·8	81·6	82·4	83·0	83·2	83·3
8	79·7	79·2	79·6	78·6	78·1	78·3	78·5	79·6	81·4	82·8	83·6	84·3	84·6	84·1	82·2
9	78·9	78·5	78·2	78·1	77·6	77·5	77·8	79·2	80·6	81·5	82·3	82·6	82·6	82·6	82·6
10	79·5	77·5	**75·2**	75·2	75·2	76·2	76·9	78·3	79·2	79·9	80·3	80·2	81·2	81·7	82·9
11	78·8	77·6	77·6	77·7	77·6	77·5	77·6	78·0	79·8	80·5	81·0	81·6	81·9	82·3	81·7
12	79·0	78·9	78·6	78·5	78·4	78·3	77·7	78·9	80·6	81·7	82·5	83·4	83·7	84·5	84·5
13	77·9	77·5	77·4	77·0	77·4	77·2	77·3	78·6	80·6	81·9	83·1	83·6	84·5	84·7	84·9
14	77·5	77·3	77·1	77·2	77·6	77·5	77·9	79·3	80·9	81·6	82·8	83·6	84·5	84·6	84·6
15	79·6	79·5	79·5	79·5	79·1	79·1	79·3	80·3	81·2	82·6	83·0	84·2	85·1	85·7	85·8
16	80·7	80·5	80·4	80·5	80·4	80·1	79·8	80·0	81·1	82·2	82·7	83·7	85·2	84·9	84·8
17	79·8	79·7	79·6	79·6	79·5	79·3	79·8	79·9	81·2	82·2	83·5	84·5	85·2	85·5	85·5
18	79·9	79·5	79·5	79·5	79·2	78·7	79·1	80·6	82·3	83·4	84·5	85·2	85·7	85·6	85·7
19	80·6	80·2	80·3	80·4	79·8	79·4	79·1	80·6	82·2	82·6	83·7	84·9	85·5	86·1	86·2
20	79·6	78·6	77·9	78·6	78·6	78·1	78·6	79·9	82·0	83·3	83·9	84·5	85·3	85·6	85·3
21	79·5	79·0	78·7	78·8	79·0	78·8	79·1	79·7	81·8	83·5	83·6	84·6	84·6	84·9	84·8
22	81·1	80·8	80·5	80·5	79·9	79·3	79·2	80·3	82·3	83·9	85·0	86·2	87·5	88·2	87·0
23	80·0	80·4	80·3	79·8	79·4	79·2	79·4	80·4	81·4	82·7	84·9	86·1	87·9	89·3	88·9
24	80·8	80·1	79·9	79·5	79·3	78·6	78·6	79·0	80·8	82·4	84·0	85·6	87·1	88·9	88·3
25	80·0	79·6	79·5	79·2	78·5	78·5	78·5	79·5	81·5	83·3	85·2	86·3	88·2	89·0	90·3
26	80·4	80·0	79·3	78·7	78·5	77·6	78·0	79·6	81·7	83·6	85·4	86·4	87·9	89·3	89·3
27	81·3	80·8	79·8	79·6	79·2	78·8	78·5	80·1	81·9	83·5	88·2	86·3	88·3	88·4	89·1
28	79·7	79·8	79·5	79·2	78·6	77·8	77·6	79·5	81·4	82·5	84·3	86·1	86·7	87·0	87·2
29	80·6	80·4	80·1	79·4	79·0	78·6	78·6	79·2	81·3	83·2	84·8	86·6	88·6	90·1	90·5
30	81·0	80·6	80·1	79·4	79·2	78·8	78·5	79·4	81·5	83·6	86·2	88·8	91·1	92·4	**93·4**
31	79·3	78·6	78·5	78·1	77·1	76·6	76·5	77·6	80·1	82·4	85·1	87·4	89·4	90·0	89·0
Mean .	79·6	79·1	78·8	78·6	78·4	**78·1**	78·3	79·3	80·9	82·1	83·2	84·2	85·1	**85·5**	85·4
Variation .	—1·8	—2·3	—2·6	—2·8	—3·0	**—3·3**	—3·1	—2·1	—0·5	+0·7	+1·8	+2·8	+3·7	**+4·1**	+4·0

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHMENT).

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
77·3	77·5	77·6	78·8	79·1	79·2	79·0	79·0	78·9	**78·9**	12 38	83·6	13 55	76·4	1
84·0	83·2	80·9	80·4	80·1	79·9	79·6	79·5	79·4	80·7	15 56	84·5	2 50	79·0	2
83·6	83·5	82·2	81·1	80·1	80·0	80·0	80·1	80·2	81·2	12 35	84·5	5 10	78·7	3
85·0	84·2	82·9	81·6	81·0	80·6	80·3	79·0	79·2	81·4	15 10	85·1	5 30	78·7	4
85·0	84·2	82·8	81·5	81·0	80·7	80·0	79·6	79·5	81·4	15 20	85·7	5 30	78·7	5
82·9	82·6	81·6	80·8	80·4	80·1	79·9	79·6	79·3	80·9	11 55	84·5	6 30	78·5	6
83·9	82·9	81·4	80·8	80·9	80·3	80·1	79·9	79·9	80·9	13 44	84·7	2 40	78·7	7
81·8	82·8	82·1	80·7	78·5	78·8	79·3	79·4	79·0	80·5	13 0	84·6	9 20	77·2	8
83·9	84·0	82·9	81·6	81·1	80·5	80·1	79·4	79·5	81·1	14 38	84·7	3 28	78·2	9
85·1	84·2	83·0	81·6	81·4	81·1	80·6	80·5	80·5	81·2	15 20	85·5	5 56	77·8	10
84·1	83·2	82·5	82·2	81·9	81·6	81·0	80·5	80·5	81·4	14 56	85·0	6 28	78·3	11
84·5	83·6	83·3	83·0	82·9	83·0	82·9	82·5	81·8	**82·4**	13 0	86·4	3 56	79·4	12
84·6	84·5	83·5	82·6	82·1	81·7	81·5	81·4	81·2	81·5	14 25	85·5	1 56	77·5	13
82·6	82·3	82·1	82·0	81·7	80·1	79·5	79·5	79·3	81·9	11 50	86·5	23 56	79·0	14
84·5	84·2	83·2	82·2	81·6	81·4	81·0	80·3	80·0	81·3	14 12	85·8	3 56	77·9	15
84·8	83·6	82·8	82·0	81·5	81·3	80·6	79·9	79·5	81·6	14 38	86·3	4 20	78·0	16
84·5	83·8	82·5	81·6	81·5	81·5	81·6	81·4	81·5	81·7	13 30	85·5	4 45	77·9	17
84·4	83·7	83·2	81·1	80·6	79·9	79·5	79·5	79·5	81·6	14 25	**86·8**	5 56	78·4	18
83·6	81·4	80·7	79·8	79·7	79·5	79 5	78·6	78·4	80·6	15 18	85·2	6 20	78·3	19
83·5	83·1	82·2	81·5	81·0	79·8	79·9	78·8	78·6	80·6	14 35	84·2	23 0	78·5	20
83·2	81·8	81·4	81·8	80·5	80·3	79·9	79·7	79·6	80·7	14 40	84·3	1 35	78·4	21
83·2	81·9	81·4	80·2	79·5	78·9	77·9	78·0	77·9	80·5	11 56	84·5	21 45	77·7	22
81·9	81·4	81·2	80·4	80·5	80·8	80·9	80·5	80·3	79·9	13 38	83·8	2 25	77·3	23
83·6	83·5	82·3	81·6	81·4	80·6	80·4	80·0	79·7	80·8	16 12	84·3	5 56	78·0	24
84·0	83·9	83·3	82·6	82·4	82·1	81·9	81·5	81·3	82·1	13 45	85·6	5 56	79·3	25
82·6	82·4	81·8	81·5	81·3	81·2	81·0	80·7	80·3	79·6	14 24	85·4	3 56	**73·9**	26
84·2	82·8	81·4	78·9	79·4	79·5	79·5	79·9	79·9	80·4	15 2	85·5	3 56	76·5	27
78·1	78·2	78·6	78·5	78·5	78·5	77·0	76·8	77·5	78·9	14 0	82·5	21 56	76·5	28
83·3	82·9	82·0	80·9	80·0	79·5	79·6	79·5	79·5	79·9	16 0	83·5	3 56	76·8	29
84·7	83·6	82·6	81·9	81·6	81·6	81·5	81·5	81·1	81·3	14 32	85·3	1 50	78·4	30
83·4	82·8	82·0	81·2	80·8	80·5	80·2	79·9	79·8	80·9					Mean.
+2·5	+1·9	+1·1	+0·3	—0·1	—0·4	—0·7	—1·0	—1·1						Variation.

OCTOBER.

79·5	79·5	79·2	78·5	78·5	78·5	78·5	78·9	78·9	79·2	12 28	83·4	1 15	76·5	1
80·1	80·1	79·2	79·6	79·7	79·6	79·8	79·6	79·6	**78·7**	13 25	81·4	4 20	75·6	2
83·8	83·2	82·0	81·3	80·9	80·6	79·9	79·5	79·4	81·0	13 25	84·6	6 35	78·3	3
81·9	81·4	80·8	80·1	79·6	79·6	79·5	79·1	79·0	79·3	14 15	83·4	3 20	75·9	4
83·6	82·9	81·8	80·7	80·5	80·3	80·1	79·8	79·5	80·6	14 15	84·8	5 56	76·9	5
79·9	78·6	78·6	79·6	80·3	79·6	79·5	79·0	78·3	80·1	12 50	84·4	3 56	78.0	6
82·4	82·2	81·8	81·4	81·0	80·6	80·4	79·9	79·9	80·0	14 32	84·2	1 12	75·4	7
81·8	82·0	81·3	80·5	80·4	79·6	79·6	79·4	79·3	80·8	13 15	85·4	4 40	78·0	8
82·7	82·4	81·0	80·3	80·0	79·5	79·5	79·5	79·5	80·2	15 25	83·4	6 0	77·4	9
83·1	82 3	81·3	80·6	79·9	79·6	79·4	79·3	78·9	79·3	15 15	83·4	2 10	**5·0**	10
81·8	81·3	80·8	79·7	79·2	78·9	78·9	79·2	79·1	79·6	15 30	82·4	1 40	76·9	11
84·3	83·0	82·1	81·3	80·6	80·3	79·6	79·1	78·6	80·8	14 35	84·9	6 28	77·6	12
85·0	84·2	82·7	81·6	81·2	80·3	79·3	78·7	78·1	80·6	15 15	85·6	3 30	76·9	13
84·5	83·6	82·5	81·8	81·5	81·4	80·6	80·4	80·0	80·8	15 0	85·5	2 20	77·0	14
85·6	84·4	83·2	82·4	81·6	81·5	81·5	81·2	81·1	81·9	14 42	86·3	5 10	79·0	15
85·1	83·8	82·8	82·4	81·9	81·3	80·6	80·4	80·4	**81·9**	13 8	86·0	6 40	79·6	16
84·8	84·0	82·9	82·2	82·0	81·9	81·6	81·1	80·5	81·9	14 12	86·3	5 20	79·1	17
85·4	84·4	83·1	82·5	82·5	82·2	81·9	81·6	81·4	82·2	12 42	86·5	6 15	78·6	18
85·9	84·5	83·2	82·5	82·3	81·8	81·4	80·8	80·5	82·3	14 28	86·5	6 20	79·0	19
84·9	83·8	82·6	82·4	82·2	21·5	80·7	80·6	80·6	**81·6**	13 10	86·3	2 45	77·8	20
84·8	84·1	83·0	82·4	82·1	81·8	81·5	81·4	81·3	81·8	12 58	86·5	2 40	78·6	21
86·3	85·2	84·0	83·3	82·9	82·5	82·0	81·5	80·8	82·9	13 8	88·6	6 0	78·5	22
88·9	87·1	85·2	83·6	83·5	82·6	82·6	81·8	81·4	83·2	13 32	89·6	6 0	78·7	23
87·8	86·1	84·8	83·5	82·7	82·4	81·3	80·5	80·5	82·6	13 40	89·3	6 0	78·5	24
89·5	87·5	85·6	84·5	84·1	83·4	82·4	81·5	80·4	83·2	14 58	90·6	4 55	78·4	25
88·9	86·9	85·5	84·5	83·9	82·9	81·6	81·6	81·7	83·1	14 40	89·6	5 40	77·5	26
88·7	87·5	86·0	84·5	83·4	82 1	81·6	80·7	80·4	83·2	14 42	89·7	6 22	78·0	27
87·2	86·2	84·8	83·8	83·2	82·5	82·3	81·5	81·4	82·5	13 18	87·5	6 20	76·0	28
90·1	88·0	86·0	84·7	84·3	83·2	82·5	81·6	80·6	83·4	13 55	91·2	6 0	78·5	29
91·7	86·9	85·3	84·3	83·7	83·2	82·5	81·2	79·5	**83·8**	14 22	**93·6**	6 0	78·4	30
88·1	86·4	84·7	83·7	83·0	81·9	80·7	79·5	79·4	82·2	13 22	90·5	6 35	76·4	31
85·1	84·0	82·8	82·1	81·7	81·2	80·8	80·3	80·0	81·4					Mean.
+3·7	+2·6	+1·4	+0·7	+0·3	—0·2	—0·6	—1·1	—1·4						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	79·5	79·1	79·3	79·0	78·1	77·2	76·5	77·4	80·0	82·2	84·9	87·0	88·8	88·7	87·6
2	79·6	79·6	79·6	79·7	79·7	79·7	78·9	78·8	81·4	84·4	86·1	87·2	84·4	84·2	83·3
3	80·1	79·5	79·5	79·6	79·4	79·5	78·9	79·6	81·8	83·7	85·0	84·4	84·5	84·8	84·8
4	78·1	78·4	78·2	78·2	77·6	77·1	77·0	77·6	78·0	78·5	79·9	80·5	81·0	81·3	80·8
5	75·5	74·9	74·5	74·5	74·7	75·3	75·6	76·6	79·0	81·6	84·2	86·0	85·5	85·4	85·0
6	79·4	78·9	79·1	78·9	79·2	79·0	79·0	79·7	81·0	83·0	85·2	86·9	89·0	**89·4**	88·3
7	78·5	78·6	78·1	77·9	77·2	76·5	76·8	77·9	79·5	81·3	83·0	84·4	84·4	84·6	84·7
8	77·5	77·2	76·1	75·3	75·1	75·4	75·6	77·0	79·0	80·4	81·5	82·5	82·7	83·0	83·1
9	77·5	77·6	77·7	76·1	76·8	76·5	77·0	78·0	79·5	81·0	82·6	84·6	86·6	87·1	86·8
10	79·2	79·0	78·5	78·6	78·3	77·9	77·7	77·8	79·0	79·6	80·3	81·0	82·0	82·8	82·5
11	75·7	75·2	74·9	74·9	74·6	75·0	74·8	75·0	75·3	75·6	76·1	76·4	76·3	75·6	75·3
12	72·8	73·1	73·4	73·4	73·7	73·4	71·7	71·4	71·8	71·3	70·5	70·0	69·8	69·8	69·9
13	68·9	68·5	67·4	67·4	67·5	68·0	68·2	68·6	69·9	71·0	71·3	71·6	72·4	72·6	72·6
14	68·3	68·3	67·6	67·5	67·7	67·5	67·5	68·0	70·3	72·4	74·5	76·0	76·7	77·2	77·2
15	70·7	69·2	69·1	69·2	69·0	69·0	68·5	69·2	71·4	73·1	75·6	77·4	79·2	80·1	81·2
16	72·6	72·4	72·1	71·5	71·2	71·0	70·8	71·6	73·1	75·1	77·1	79·2	81·0	82·6	83·2
17	74·0	73·0	71·9	71·3	71·0	71·2	71·1	71·1	73·5	75·3	77·8	79·1	81·0	82·0	82·1
18	71·5	71·0	71·0	70·9	70·4	70·1	70·1	70·9	72·5	74·1	77·4	79·1	80·6	81·6	82·3
19	71·4	70·9	70·6	70·0	69·5	69·2	69·0	69·8	71·5	73·5	76·1	77·5	79·4	80·8	81·4
20	70·1	69·8	70·0	69·4	69·2	69·0	68·5	69·5	71·3	73·6	75·9	77·5	79·2	80·5	81·3
21	70·5	70·4	70·2	70·0	69·5	69·5	69·5	69·8	72·2	74·5	77·0	79·2	81·4	82·0	80·9
22	71·0	70·8	70·7	70·5	70·0	69·5	69·5	70·4	72·5	74·6	76·9	78·4	80·4	81·9	82·5
23	72·3	71·2	70·0	70·5	70·1	69·3	69·5	70·2	71·5	73·7	76·3	77·8	79·9	81·0	81·5
24	71·2	71·0	70·9	70·6	70·1	69·9	69·1	70·0	71·9	74·0	76·6	78·4	80·1	81·7	82·8
25	72·5	71·9	71·4	70·9	70·6	70·3	69·8	70·2	71·8	73·6	77·0	78·6	80·9	81·8	82·9
26	72·8	72·5	72·0	71·6	70·4	70·1	70·1	70·9	72·5	74·5	76·9	78·5	81·1	82·9	84·0
27	72·8	72·5	72·0	71·9	69·9	69·5	69·1	69·5	71·6	74·0	76·8	78·5	80·3	81·1	81·8
28	70·9	70·3	69·7	69·5	69·1	68·8	69·0	69·1	71·0	73·4	76·4	78·5	79·3	81·0	82·0
29	71·6	71·0	71·2	71·2	70·6	70·3	70·0	70·9	72·9	74·9	76·8	78·2	80·1	81·3	81·2
30	71·6	72·0	72·0	71·6	71·4	71·0	70·7	71·5	73·3	75·6	78·6	80·6	82·3	83·8	84·5
Mean .	73·9	73·6	73·3	73·1	72·7	72·5	**72·3**	72·9	74·7	76·5	78·5	79·8	81·0	81·8	**81·9**
Variation .	—2·5	—2·8	—3·1	—3·3	—3·7	—3·9	**—4·1**	—3·5	—1·7	+0·1	+2·1	+3·4	+4·6	+5·4	+5·5

DECEMBER.

1	75·0	74·4	73·8	73·5	72·9	72·5	72·6	73·5	75·6	77·9	81·0	82·9	85·6	85·9	84·7
2	74·9	73·8	72·8	72·8	73·0	72·6	72·6	72·8	73·3	74·9	77·5	79·8	81·2	83·0	83·9
3	72·6	72·1	72·2	71·7	71·6	71·5	71·4	72·8	73·6	75·5	77·7	79·0	80·6	81·2	81·6
4	73·8	73·6	73·2	72·6	71·8	71·5	71·4	72·0	73·6	75·1	76·8	78·4	79·6	80·0	80·3
5	73·3	72·9	72·9	72·9	72·6	72·0	71·6	72·9	74·5	76·0	78·0	79·5	81·5	81·1	80·9
6	74·6	74·1	74·0	73·9	73·7	73·1	73·0	73·7	75·6	77·1	78·6	81·0	83·5	85·2	85·5
7	76·1	76·4	76·3	75·9	76·0	76·4	76·6	77·0	78·4	80·2	82·2	83·9	85·4	86·6	87·7
8	75·7	75·0	74·7	74·5	73·7	73·5	73·7	74·4	75·8	76·8	79·4	81·8	82·7	82·8	82·4
9	74·0	74·0	73·5	73·1	72·4	71·8	71·8	72·5	74·1	75·9	78·3	80·8	82·1	82·7	84·0
10	72·2	71·5	72·0	71·5	71·5	71·0	70·9	71·4	71·5	73·0	74·8	75·9	77·9	79·2	80·2
11	72·9	72·6	72·1	71·2	71·2	71·2	70·8	72·0	73·6	74·6	76·1	77·1	78·5	80·0	80·7
12	73·1	72·8	72·0	71·7	71·5	71·2	71·0	71·5	73·5	75·3	77·3	79·0	82·0	82·6	81·9
13	73·6	73·0	72·6	72·4	72·4	72·5	72·0	72·5	74·0	75·5	77·4	79·7	82·5	83·5	83·2
14	73·6	74·1	73·3	73·9	73·5	73·2	72·5	73·0	74·3	75·9	78·4	80·2	81·6	82·9	83·3
15	74·5	74·2	74·2	73·6	73·0	72·8	72·0	72·5	74·7	76·7	79·2	81·0	83·2	82·9	82·5
16	73·9	73·9	73·3	72·9	72·4	70·9	70·6	**71·9**	74·0	75·9	78·6	80·2	82·5	84·4	84·4
17	75·5	74·9	74·2	74·1	74·1	74·0	73·5	73·8	75·1	76·9	79·1	80·6	83·0	84·6	85·1
18	74·9	74·9	75·0	74·3	74·0	73·9	74·4	74·9	75·9	77·4	78·7	80·6	82·2	82·5	82·4
19	76·0	74·6	74·0	74·3	74·7	74·8	74·5	74·6	76·5	77·5	77·5	78·6	77·7	76·0	76·3
20	68·8	68·0	67·4	66·8	66·5	66·0	65·8	66·2	68·2	70·4	72·2	73·8	75·9	76·1	76·3
21	67·2	66·5	65·4	65·2	64·9	64·5	**64·1**	64·4	67·5	70·9	74·0	76·4	76·9	77·6	77·7
22	70·0	69·2	68·3	67·8	67·5	67·5	67·5	69·0	71·4	74·1	77·6	78·8	79·9	79·9	79·7
23	72·2	71·5	71·1	71·0	71·3	71·7	71·5	72·1	74·0	75·6	77·9	**79·9**	81·6	80·9	80·9
24	73·6	73·2	72·8	72·2	72·5	72·5	72·4	72·9	74·6	76·2	78·2	80·3	82·4	83·6	83·0
25	74·8	74·0	74·1	73·5	73·3	72·9	72·0	72·6	73·9	75·5	77·6	79·0	81·3	83·4	83·5
26	75·1	75·2	74·9	74·5	73·9	73·4	73·5	73·7	74·9	76·4	79·0	80·5	82·0	82·6	83·4
27	74·8	74·4	74·2	74·0	73·5	73·5	73·2	73·2	74·6	76·0	78·1	79·9	81·0	81·4	81·4
28	73·4	72·9	72·5	73·1	73·5	72·6	72·0	72·0	73·8	75·9	77·8	78·9	79·5	79·7	80·2
29	73·2	72·5	72·2	72·2	71·9	71·5	71·5	72·2	73·9	75·0	77·1	78·0	79·0	79·5	79·5
30	74·0	73·4	73·0	72·7	72·1	71·8	72·0	72·0	73·0	74·7	76·4	77·7	79·0	79·4	79·4
31	75·0	75·0	75·0	74·8	74·4	73·4	72·4	72·9	74·6	75·5	76·8	77·0	77·9	73·4	73·5
Mean .	73·6	73·2	72·8	72·5	72·3	72·0	**71·8**	72·3	73·9	75·6	77·7	79·4	81·0	**81·4**	**81·6**
Variation .	—2·4	—2·8	—3·2	—3·5	—3·7	—4·0	**—4·2**	—3·7	—2·1	—0·4	+1·7	+3·4	+5·0	+5·4	+5·6

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Hours. 15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Mean.	Maximum. Time. H.	M.	Mag.	Minimum. Time. H.	M.	Mag.	Date.
85·7	84·1	83·2	82·9	82·2	81·0	80·0	78·9	78·8	81·8	13	28	89·5	6	30	76·3	1
82·9	82·9	83·1	82·8	82·5	82·0	81·9	81·9	81·0	82·0	11	22	88·5	7	10	78·5	2
84·9	83·0	81·1	80·5	80·0	79·4	79·4	78·9	78·0	81·3	15	29	85·5	23	58	77·5	3
80·2	78·8	77·9	78·0	78·1	77·6	77·5	77·2	76·5	78·5	13	30	82·7	23	56	76·2	4
83·9	82·0	80·9	80·5	80·5	80·6	80·3	80·1	80·0	79·9	12	0	87·5	3	56	74·4	5
86·6	84·5	82·9	81·6	81·1	80·6	80·4	79·4	78·8	82·2	13	30	89·7	1	35	78·6	6
84·3	82·9	81·6	80·3	80·2	79·8	79·4	78·9	77·9	80·4	13	35	85·0	5	38	76·0	7
82·8	81·2	80·2	79·6	79·4	79·0	78·4	77·8	77·3	79·0	14	22	84·0	4	0	74·4	8
84·2	83·4	82·1	81 0	80·5	80·6	80·4	80·2	79·9	80·7	13	5	87·4	5	50	76·0	9
82·4	81·5	81·2	80·6	80·3	79·8	79·8	78·3	76·4	79·8	14	0	83·5	23	56	76·2	10
75·4	74·7	74·6	75·0	75·1	75·2	74·8	73.1	71·8	75·0	12	0	76·6	23	30	71·4	11
68·5	67·4	66·7	66·5	66·6	66·5	65·8	66·1	67·5	69·9	4	20	74·0	22	10	65·7	12
72·5	71·8	71·4	70·6	69·6	69·4	68·8	68·4	67·8	69·8	13	50	73·4	2	15	67·3	13
76·6	75·7	74·9	74·5	74·3	73·2	72·2	71·2	71·0	72·1	14	18	78·4	5	56	67·4	14
80·9	78 9	77·1	76·1	75·5	74·4	74·4	73·8	73·2	74·0	15	5	82·0	6	25	68·4	15
83·1	81·7	79·9	78·4	77·8	76·5	75·6	74·2	74·5	76·1	14	30	83·5	6	40	70·4	16
80·6	79·1	77·6	76·2	75·2	74·4	73·1	72·0	72·1	75·2	14	15	83·5	4	40	70·8	17
82·2	80·8	78·3	76·0	75·0	74·4	73·8	72·1	72·1	74·9	14	45	83·2	6	0	69·9	18
81·4	79·7	78·0	76·0	74·9	74·9	74·2	72·4	71·0	74·3	14	32	92·6	6	25	68·9	19
79·9	78·1	77·0	75·9	75·3	74·0	72·7	71·5	71·0	73·7	14	39	81·6	6	25	68·4	20
79·9	78·6	77·5	76·6	76·1	75·1	74·0	72·4	71·9	74·5	13	35	83·0	5	56	69·4	21
82·3	80·6	78·9	77·5	76·6	75·2	74·0	72·5	72·3	75·0	15	15	82·6	5	35	69·4	22
81·4	79·7	78·2	77·2	76·6	75·6	74·1	72·2	71·5	74·6	15	18	81·6	5	56	69·2	23
82·1	80·6	78·8	77·3	76·1	75·5	74·8	73·4	72·3	75·0	14	42	83·0	6	40	69·0	24
82·4	80·9	79·0	77·8	76·3	75·3	74·9	74·1	72·8	75·3	14	30	83·2	6	25	69·5	25
82·4	80·0	78·9	77·5	76·5	75·3	74·8	73·0	72·6	75·5	14	35	84·4	6	24	70·0	26
81·5	79·8	78·0	76·5	75·2	73·9	72·8	71·1	70·9	74·6	14	52	82·5	6	44	69·0	27
80·9	79·3	77·9	76·8	75·5	74·0	73·1	71·7	70·9	74·1	14	15	82·5	5	56	68·5	28
80·8	79·1	77·9	77·0	76·4	75·9	74·9	73·7	72·8	75·0	14	13	81·6	6	40	69·8	29
83·9	82·1	80·5	79·3	78·1	77·0	76·0	74·6	75·0	76·5	14	45	84·7	6	38	70·5	30
81·2	79·8	78·5	77·5	76·9	76·2	75·5	74·5	74·0	76·4							Mean.
+4·8	+3·4	+2·1	+1·1	+0·5	—0·2	—0·9	—1·9	—2·4								Variation.

DECEMBER.

83·2	81·0	79·9	79·1	78·2	77·1	76·0	75·1	74·5	77·7	13	45	86·3	5	42	72·4	1
82·4	80·3	79·0	77·3	76·8	76·0	75·2	74·2	73·3	76·4	14	36	84 5	3	0	72·4	2
81·9	80·9	79·6	78·2	76·9	76·2	75·9	75·4	75·0	76·0	15	30	82·0	6	20	71·3	3
80·1	79·2	78·0	77·3	76·8	75·6	75·4	74·9	74·0	75·6	15	5	80·6	6	30	71·3	4
80·5	79·4	78·5	77·6	77·2	76·9	76·2	75·3	75·0	76·2	12	58	81·7	6	45	71·4	5
86·3	83·4	80·2	78·7	77·9	76·4	75·8	75·8	75·9	77·8	15	24	86·5	6	20	72·9	6
87·8	86·6	83·5	80·3	79·0	78·2	77·3	76·5	76·2	80·0	15	20	88·0	0	0	75·5	7
82·4	80·5	78·9	77·2	76·9	76·0	74·2	73·1	73·5	77·1	13	18	83·2	5	32	73·4	8
82·5	79·8	78·3	77·4	76·9	76·1	74·6	73·1	72·6	76·3	14	44	84·4	5	35	71·5	9
80·0	78·8	77·6	76·3	75·2	74·9	74·5	73·8	72·9	74·5	15	30	80·5	6	0	70·4	10
80·1	79·2	78·1	77·0	76·2	75·4	74·2	73·2	73·0	75·0	14	32	81·2	6	38	70·4	11
81·4	80·4	79·3	78·3	77·7	77·0	76·2	75·2	74·0	76·1	13	56	82·9	7	10	70·8	12
83·2	81·9	80·3	79·1	78·0	76·9	76·5	75·4	74·8	76·8	13	26	83·7	6	44	71·7	13
83·3	81·7	79·9	78·8	77·8	77·0	76·1	74·9	74·8	77·0	14	46	83·6	6	32	72·4	14
82·1	80·3	79·0	78·2	77·7	77·0	76·4	75·1	74·0	76·9	12	48	83·7	6	50	71·5	15
83·9	82·3	80·9	79·4	78·5	77·9	76·7	75·2	75·1	77·1	13	56	84·6	6	25	70·4	16
83·6	81·9	80·4	79·3	78·8	77·8	77·2	76·4	75·4	77·9	14	20	85·5	6	40	73·4	17
81·4	79·9	79·5	77·7	77·5	77·5	77·5	77·0	76·7	77·5	13	4	83·0	6	40	73·8	18
76.2	75·9	74·6	73·9	73·4	72·2	71·5	70·7	70·0	74·8	11	25	79·0	23	56	69·6	19
76·0	74·9	73·9	72·9	72·1	70·8	69·8	68·8	68·1	70·7	14	34	76·8	6	55	65·5	20
77·2	76·6	75·4	75·0	74·8	73·5	72·5	71·8	70·9	71·3	13	40	78·0	7	0	63·9	21
79·3	77·6	76·3	75·6	75·3	74·8	73·9	73·1	72·9	73·6	13	54	80·0	4	50	67·4	22
80·5	79·2	78·0	76·7	75·9	75·9	75·6	75·0	74·3	75·6	12	24	82·4	3	25	70·5	23
82·7	81·0	79·2	78·0	77·2	76·0	74·9	75·0	74·9	76·6	13	38	83·8	3	56	72·0	24
83·4	82·0	80·2	78·8	77·9	77·0	76·3	75·9	75·2	77·0	14	36	83·7	6	50	71·8	25
83·5	82·0	80·6	79·1	77·5	76·6	76·1	75·4	75·2	77·5	15	35	83·8	6	20	73·3	26
81·1	80·4	79·2	78·4	77·8	77·0	76·2	75·4	74·8	76·8	14	25	81·8	7	0	72·9	27
80·3	79·2	77·9	77·2	76·7	76·3	75·2	74·0	73·6	75·8	14	36	80·5	7	0	71·9	28
79·7	78·9	77·4	76·9	76·5	76·0	75·0	74·2	74·5	75·3	15	0	79·9	5	50	71·4	29
79·0	77·9	76·9	76·2	76·2	76·1	75·9	75·6	75·5	75·4	13	55	80·0	5	35	71·7	30
73·4	77·2	76·0	75·4	75·2	74·2	73·6	72·3	71·3	74·6	13	58	78·9	23	55	70·5	31
81·2	80·0	78·6	77·5	76·8	76·0	75·2	74·4	73·9	76·0							Mean.
+5·2	+4·0	+2·6	+1·5	+0·8	0·0	—0·8	—1·6	—2·1								Variation.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	85	82	76	77	73	74	70	72	72	68	60	57	58
2	80	76	76	76	75	75	74	68	67	67	62	60	64
3	65	68	64	62	73	76	80	83	72	60	69	67	68
4	83	82	86	88	79	78	80	80	78	77	74	74	72
5	82	80	82	86	83	83	84	84	80	76	74	74	70
6	77	74	74	75	80	81	82	78	75	71	68	64	62
7	69	70	78	76	80	81	79	79	75	73	67	59	55
8	74	74	72	74	74	74	73	76	73	68	64	60	62
9	71	71	71	75	68	63	67	69	59	60	54	49	48
10	74	70	75	83	80	83	82	82	77	69	68	63	63
11	78	81	85	83	80	79	84	85	80	76	65	55	55
12	55	62	61	56	48	50	49	50	49	49	51	48	46
13	65	70	69	67	64	61	61	60	60	57	53	45	37
14	75	77	83	87	87	87	88	85	80	77	71	69	61
15	81	82	82	82	82	77	65	67	70	57	48	49	40
16	68	67	69	72	64	64	66	69	65	54	60	53	49
17	60	60	59	63	70	65	67	71	67	59	57	52	49
18	80	71	68	68	71	73	70	64	54	55	47	42	53
19	80	82	83	83	85	85	85	85	84	81	73	69	69
20	82	81	85	85	87	89	85	83	68	51	47	40	45
21	58	57	63	67	73	73	80	80	78	74	56	44	48
22	80	81	80	79	79	76	75	74	68	67	64	63	61
23	69	74	78	76	67	68	66	66	56	51	49	46	47
24	54	48	47	45	48	49	50	54	48	44	47	48	52
25	76	76	69	59	56	63	65	58	65	61	62	57	61
26	78	75	74	70	63	60	61	65	64	65	58	55	56
27	70	69	79	82	80	69	71	66	57	60	62	56	56
28	60	63	71	77	69	72	72	72	68	67	62	54	54
29	66	68	69	63	65	69	71	71	66	64	53	54	56
30	68	80	77	66	49	57	65	71	70	69	65	55	47
31	79	81	79	75	72	75	74	72	70	66	59	51	46
Mean .	72·3	72·6	73·7	73·5	71·7	71·9	72·3	72·5	68·2	64·3	60·3	55·9	55·2
†Mean Vapour Pressure in inches of mercury.	·527	·523	·521	·513	·492	·490	·488	·496	·503	·509	·516	·507	·518

FEBRUARY.

1	83	85	82	77	68	67	68	69	59	57	55	53	52
2	63	59	70	68	70	70	73	63	61	64	60	52	52
3	81	82	75	72	72	71	66	70	71	67	66	66	60
4	84	85	82	78	76	74	69	68	65	56	53	56	56
5	60	62	60	60	68	71	64	68	60	56	53	60	61
6	71	71	70	70	73	75	76	75	68	71	68	66	66
7	77	79	66	59	53	59	55	52	54	54	53	48	50
8	74	75	68	55	48	52	63	58	51	56	52	47	50
9	72	71	75	69	59	61	61	61	62	49	41	48	53
10	56	59	63	65	58	56	59	58	49	48	48	51	51
11	73	75	80	80	75	82	83	81	78	70	61	65	61
12	83	84	87	90	87	87	89	90	85	79	74	74	70
13	88	89	90	88	90	90	91	89	88	83	79	74	69
14	78	77	78	83	84	84	85	84	81	76	68	63	63
15	77	79	80	81	82	84	82	82	82	76	69	65	63
16	72	73	74	81	83	83	83	84	80	78	72	69	62
17	80	81	80	81	79	79	76	74	69	61	57	51	52
18	69	70	67	68	66	71	72	72	69	64	55	56	55
19	67	65	65	64	64	68	63	66	58	57	58	55	51
20	77	81	80	82	78	80	81	78	67	60	58	52	46
21	75	75	75	76	79	80	79	75	71	70	69	64	63
22	70	76	73	73	76	77	81	80	77	71	68	61	53
23	57	57	59	52	40	38	38	36	31	30	25	25	26
24	54	55	53	52	50	51	56	54	48	41	30	28	24
25	70	68	66	67	70	66	58	51	52	49	43	37	39
26	79	77	81	82	80	78	80	84	73	70	73	67	61
27	80	85	85	82	78	82	85	85	78	74	67	54	52
28	81	78	73	78	75	78	75	73	69	56	47	58	58
Mean .	73·3	74·0	73·6	72·6	70·7	71·9	71·8	70·7	66·3	62·3	57·9	55·9	54·3
†Mean Vapour Pressure in inches of mercury.	·570	·570	·557	·544	·521	·523	·515	·521	·530	·534	·538	·544	·542

† Computed from mean temperatures and mean relative humidities.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	† Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
57	63	62	62	63	71	72	73	74	77	77	69·8	·623	1
65	63	68	66	64	67	64	64	67	65	66	68·4	·599	2
67	62	63	66	65	68	72	75	77	82	84	70·3	·609	3
67	65	65	70	73	76	76	76	75	78	78	76·3	**·635**	4
67	65	63	64	64	65	63	65	69	71	75	73·7	·581	5
55	47	46	47	56	65	69	71	71	67	69	67·7	·536	6
49	50	54	55	57	60	61	63	67	72	73	66·7	·533	7
61	63	64	63	65	67	69	71	73	74	73	69·2	·517	8
50	51	54	59	64	69	72	74	75	77	77	64·5	·472	9
63	64	63	69	72	75	78	81	83	79	76	73·8	·590	10
54	57	58	59	60	64	64	69	61	52	55	68·3	·542	11
46	45	46	51	56	59	64	68	70	61	55	**54·0**	**·415**	12
39	46	55	60	62	64	72	76	81	78	76	61·6	·487	13
53	55	55	58	59	63	66	71	75	78	78	72·6	·573	14
39	44	49	44	44	53	55	63	67	66	65	61·3	·469	15
51	53	55	56	59	61	62	58	58	59	61	60·5	·457	16
52	51	56	63	63	68	70	74	78	79	81	63·9	·501	17
60	63	63	63	67	70	72	74	76	77	80	65·9	·562	18
65	64	63	66	68	71	75	79	80	80	83	**76·6**	·612	19
44	42	45	50	55	58	58	61	66	68	66	64·2	·491	20
51	52	53	57	60	63	68	68	73	79	79	64·7	·469	21
52	51	49	51	55	59	65	66	71	68	67	66·7	·495	22
46	48	47	49	51	51	51	51	50	49	54	56·7	·426	23
57	60	59	64	68	68	73	76	75	78	76	57·8	·432	24
62	66	69	70	72	74	71	70	73	72	75	67·0	·534	25
60	63	63	65	68	70	72	72	70	71	69	66·1	·534	26
54	58	61	61	61	62	67	69	69	71	69	65·8	·524	27
51	55	58	60	58	60	61	61	65	60	61	63·0	·516	28
62	62	64	65	67	69	67	68	66	67	60	64·7	·528	29
60	62	69	60	64	65	67	72	70	78	72	65·4	·539	30
57	62	64	62	65	68	70	73	75	78	80	68·9	·575	31
55·5	56·6	57·9	59·8	62·1	65·3	67·3	69·4	71·0	71·3	71·3	66·3	·528	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		†Mean Vapour Pressure in inches of mercury.
·528	·540	·547	·546	·540	·547	·553	**·557**	·556	·549	·527	·525		

FEBRUARY.

54	58	58	60	61	64	68	72	74	68	64	65·7	·558	1
54	55	59	63	64	66	61	65	66	66	70	63·1	·550	2
50	52	55	57	58	63	67	70	69	69	76	66·9	·603	3
57	56	56	57	62	67	69	67	59	61	61	65·6	·576	4
63	63	65	65	66	66	70	71	71	73	71	64·5	·548	5
64	63	63	61	62	64	64	69	68	68	71	68·2	·569	6
59	58	60	64	65	64	68	67	65	55	56	60·0	·504	7
51	52	60	65	70	76	74	71	72	70	68	61·6	·516	8
53	55	58	61	63	65	64	66	59	58	56	60·0	·499	9
54	54	55	56	60	64	68	69	69	69	66	58·5	·479	10
66	69	71	72	71	78	80	78	79	81	83	74·7	·624	11
68	65	66	70	73	77	81	82	82	85	86	**79·7**	**·672**	12
67	65	62	61	67	70	73	76	78	76	79	78·4	·657	13
61	60	61	61	63	65	66	66	68	72	75	71·7	·611	14
62	62	60	61	64	68	68	69	71	73	73	72·2	·623	15
61	62	63	66	71	73	76	75	77	79	79	74·0	·663	16
52	54	55	61	63	63	68	69	69	67	68	67·0	·598	17
54	51	51	52	57	61	61	57	65	63	67	62·2	·499	18
52	53	57	62	67	70	70	66	61	62	66	62·0	·501	19
50	47	54	62	66	71	72	74	73	72	74	68·1	·594	20
70	75	76	82	83	76	75	75	72	73	70	74·1	·682	21
50	45	46	45	45	48	50	49	46	46	52	60·7	·492	22
27	28	32	38	44	47	52	52	54	53	52	**41·4**	**·302**	23
37	47	51	55	57	58	59	61	65	68	66	50·8	·389	24
42	45	49	54	61	63	66	69	74	77	79	59·0	·511	25
61	62	61	62	61	64	69	72	76	75	76	71·8	·612	26
53	53	53	59	61	67	68	70	75	78	78	70·9	·596	27
59	56	57	62	62	63	65	66	66	67	70	66·5	·604	28
55·4	55·9	57·6	60 5	63·1	65·7	67·6	68·3	68·7	68·7	69·7	65·7	·558	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		†Mean Vapour Pressure in inches of mercury.
·559	·564	·573	**·581**	·577	·577	·582	·576	·566	·553	·552	·553		

† Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	77	79	77	81	83	83	84	78	70	65	63	58	63
2	83	80	77	76	79	83	85	83	76	74	67	61	50
3	65	72	72	70	62	60	59	49	49	39	41	46	44
4	78	75	72	70	72	74	66	57	52	48	46	42	38
5	72	73	73	70	68	64	65	67	64	61	57	53	42
6	67	71	75	78	76	79	76	69	67	60	48	48	50
7	53	48	45	46	44	43	50	54	48	41	40	49	54
8	72	72	71	76	69	68	64	56	54	44	31	30	36
9	85	88	87	90	83	80	81	83	82	83	80	78	76
10	68	70	72	70	70	72	77	75	61	52	50	52	56
11	66	59	63	75	76	77	75	69	51	56	54	48	50
12	76	74	71	71	61	56	60	56	48	46	46	51	56
13	80	81	82	83	82	83	83	66	45	51	60	64	65
14	75	75	76	76	80	80	79	65	59	54	56	58	64
15	65	61	64	69	72	73	72	65	58	64	65	57	58
16	73	68	68	72	74	74	72	67	65	65	68	67	62
17	75	77	80	77	81	82	82	79	75	74	74	74	70
18	80	80	82	78	47	63	55	56	48	53	52	53	55
19	71	71	71	74	79	81	78	74	65	61	58	60	65
20	69	69	73	74	76	75	60	55	63	61	67	62	61
21	81	83	85	85	85	87	86	79	72	69	61	62	63
22	83	82	83	83	85	85	85	81	76	72	63	62	56
23	86	86	87	87	89	89	90	87	83	82	77	71	68
24	84	82	77	76	74	74	70	70	66	68	69	67	53
25	82	81	81	81	85	86	85	81	80	73	70	65	62
26	71	70	76	74	73	72	72	59	60	52	38	53	56
27	76	78	74	78	74	75	71	66	68	62	63	66	63
28	76	79	81	83	83	78	77	72	65	50	49	55	54
29	81	80	80	82	83	84	85	81	77	72	64	69	58
30	81	84	86	86	86	83	83	77	69	64	67	69	68
31	82	81	75	75	73	70	70	68	63	58	58	60	62
Mean .	75·3	75·1	75·4	76·3	75·0	75·3	74·1	69·2	63·8	60·5	58·1	58·4	57·4
M an.* Vapour Pressure in inches of mercury.	" ·657	" ·648	" ·642	" ·639	" ·616	" ·610	" ·596	" ·588	" ·595	" ·604	" ·615	" ·639	" ·643

APRIL.

1	80	81	80	84	81	78	77	76	64	67	67	65	59
2	72	72	70	75	74	75	75	68	57	54	53	54	53
3	84	84	84	85	86	85	82	79	74	72	73	72	69
4	86	85	83	79	73	75	77	75	67	62	56	62	62
5	80	84	87	89	90	89	86	83	78	75	74	73	73
6	82	80	82	85	84	86	88	84	76	74	74	71	71
7	84	84	82	83	84	86	85	84	79	74	72	70	67
8	73	74	77	78	80	81	84	81	77	76	75	72	70
9	79	78	76	76	77	77	78	71	59	55	53	54	54
10	73	74	77	79	81	84	85	82	76	74	72	69	66
11	74	75	78	80	81	81	79	76	72	70	69	67	64
12	72	67	75	81	82	83	83	84	73	73	71	70	68
13	84	83	84	86	85	86	84	77	73	70	63	62	58
14	78	77	79	81	80	79	75	70	69	64	63	64	63
15	70	72	76	76	75	75	74	67	55	53	56	61	62
16	77	79	82	83	84	86	84	73	60	55	56	54	52
17	76	77	79	81	81	81	81	81	72	70	66	65	64
18	78	79	79	79	79	79	76	73	68	66	64	62	62
19	79	80	80	78	77	76	82	78	74	68	65	64	61
20	82	84	83	80	82	83	82	78	74	69	59	63	63
21	77	77	80	81	82	82	77	73	68	66	67	66	70
22	72	76	74	72	68	68	70	67	67	64	65	67	60
23	70	74	75	72	75	78	78	76	73	66	64	63	65
24	86	86	83	84	85	87	87	82	81	75	73	73	72
25	82	80	81	79	82	81	80	75	71	66	53	45	46
26	75	75	76	76	79	80	80	72	60	64	67	60	68
27	79	78	70	77	79	76	79	74	74	72	70	69	70
28	78	76	75	78	81	83	84	76	65	65	66	69	66
29	70	73	74	74	76	78	78	71	68	64	61	53	49
30	68	68	71	72	73	74	74	69	66	65	64	63	59
Mean .	77·3	77·7	78·4	79·4	79·9	80·4	80·2	75·8	69·7	66·9	65·0	64·4	62·9
*Mean Vapour Pressure in inches of mercury.	" ·750	" ·748	" ·748	" ·750	" ·747	" ·742	" ·748	" ·757	" ·748	" ·754	" ·761	" ·771	" ·770

*Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
62	62	66	67	66	66	72	75	74	77	80	72·0	·660	1
51	49	39	38	41	46	47	52	43	46	55	61·7	·569	2
48	43	45	46	51	57	62	66	68	68	70	56·3	·525	3
37	38	38	47	56	63	64	62	62	66	68	58·0	·539	4
31	35	33	40	46	53	55	58	61	64	67	57·2	·487	5
50	51	52	53	52	57	59	59	61	60	57	61·5	**·510**	6
58	57	57	58	60	61	63	67	67	67	74	**54·3**	**·485**	7
47	43	55	59	75	83	80	81	83	82	84	63·1	·664	8
63	65	66	65	67	71	73	73	72	71	71	76·4	·746	9
56	54	49	48	48	52	54	56	60	61	66	60·4	·550	10
54	53	55	60	64	68	70	69	68	71	78	63·7	·584	11
56	58	59	59	64	69	72	75	77	79	81	63·4	·593	12
60	61	61	66	69	73	73	75	75	75	75	70·3	·647	13
67	71	70	68	72	73	70	64	65	69	70	69·0	·658	14
57	62	63	63	68	71	72	73	73	74	74	66·4	·659	15
60	59	61	65	70	71	65	65	65	71	73	67·5	·648	16
68	69	67	68	67	70	71	73	74	73	78	74·1	·711	17
59	58	57	57	56	61	63	65	68	60	64	61·3	·604	18
65	64	63	61	59	64	64	62	58	58	70	66·5	·656	19
60	58	57	59	63	70	73	75	77	80	78	67·3	·648	20
67	64	64	65	68	71	71	72	77	79	81	74·0	·685	21
62	63	67	68	73	78	81	84	82	84	84	75·9	·726	22
67	66	67	67	69	76	80	81	79	82	80	**79·0**	**·756**	23
51	50	57	60	63	69	71	73	76	79	81	69·2	·673	24
58	49	44	46	47	50	55	59	62	66	67	67·3	·672	25
61	62	61	64	66	68	70	72	72	73	63	64·9	·650	26
55	55	52	52	57	58	63	67	70	70	71	66·0	·653	27
55	56	56	57	62	65	66	65	73	80	83	67·5	·659	28
52	50	51	56	64	71	73	76	78	79	80	71·9	·695	29
67	68	69	69	69	74	72	75	84	81	81	75·5	·735	30
64	66	66	71	75	81	83	83	83	84	83	72·3	·713	31
57·0	**56·7**	57·0	58·8	62·2	66·5	68·0	69·4	70·5	71·9	73·8	66·9	·638	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		
·644	·641	·634	·635	·638	·647	·646	·647	·644	·642	·652	·632		Mean* Vapour Pressure in inches of mercury.

APRIL.

56	58	57	62	65	68	73	78	77	72	74	70·8	·716	1
54	51	**45**	47	53	65	68	75	83	84	84	65·0	**·664**	2
71	70	73	72	74	77	79	80	79	82	85	78·0	·776	3
56	60	62	61	69	75	76	74	76	78	78	71·1	·766	4
73	72	74	75	78	78	77	80	81	82	82	**79·7**	**·850**	5
68	69	70	73	78	82	83	84	86	86	84	79·2	·783	6
67	66	64	62	62	65	67	70	71	70	72	73·7	·751	7
67	64	61	67	71	74	74	75	74	77	80	74·3	·762	8
54	58	59	62	64	70	70	72	74	73	72	67·3	·715	9
65	63	65	67	67	73	77	79	80	78	73	74·1	·752	10
63	64	64	61	66	71	72	73	76	78	76	72·1	·739	11
67	68	67	68	75	80	80	76	80	82	83	75·3	·780	12
59	58	61	66	61	62	67	73	73	74	77	71·9	·769	13
61	59	58	58	59	62	65	67	74	68	67	68·3	·750	14
63	63	61	58	60	62	74	77	73	77	78	67·4	·742	15
52	54	57	58	69	75	72	73	71	69	72	68·6	·722	16
64	65	66	68	69	73	74	75	75	76	76	73·3	·735	17
62	62	62	64	67	68	72	75	76	75	77	71·0	·726	18
62	61	62	63	67	72	74	77	78	81	81	72·5	·746	19
62	65	67	67	69	72	73	76	78	78	78	73·6	·762	20
67	64	62	64	66	69	72	74	74	70	70	71·6	·768	21
54	53	54	57	59	60	64	68	71	73	68	65·5	·736	22
65	66	67	71	77	80	83	84	84	84	85	74·0	·805	23
72	72	74	74	76	78	78	77	78	79	80	78·8	·837	24
49	55	56	61	64	68	70	68	68	69	74	67·6	·723	25
70	71	70	67	71	76	77	78	79	79	82	73·4	·788	26
69	69	70	71	74	77	79	80	79	78	80	74·7	·831	27
63	57	57	51	54	59	62	65	67	67	69	68·0	·799	28
51	49	49	50	46	58	63	65	66	66	68	**63·3**	·709	29
62	63	65	66	70	75	77	79	78	77	77	69·8	·761	30
62·3	62·3	62·6	63·7	66·7	70·8	73·1	74·9	76·0	76·1	76·7	71·8	·759	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		
·770	·766	·757	·748	·749	·755	·759	·763	·763	·758	·756	756		*Mean Vapour Pressure in inches of mercury.

*Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	77	78	79	80	81	82	82	79	71	69	68	66	64
2	79	77	78	78	78	78	77	77	76	71	66	63	59
3	75	76	77	77	76	76	77	73	69	67	64	63	62
4	79	80	79	80	82	84	83	77	71	68	65	62	62
5	82	82	80	81	82	84	81	76	72	69	68	65	64
6	80	80	82	82	82	83	82	80	74	70	68	67	65
7	78	78	79	79	80	81	80	76	72	67	66	65	64
8	77	77	74	76	79	80	77	76	69	68	65	64	62
9	79	80	80	79	78	79	77	75	71	68	66	64	63
10	77	77	77	78	77	77	77	74	68	65	63	63	61
11	69	69	69	71	69	70	69	68	63	61	60	59	59
12	68	68	68	67	70	71	69	66	62	61	58	58	57
13	71	71	73	73	72	70	70	69	66	65	62	60	60
14	71	70	72	74	74	74	73	71	68	66	63	60	59
15	73	73	73	73	74	73	75	72	68	65	65	62	61
16	76	74	74	75	79	80	78	75	70	68	66	66	67
17	82	82	80	80	81	81	82	81	78	76	75	72	71
18	84	84	84	83	83	85	84	79	76	73	71	70	67
19	83	83	84	85	**86**	86	84	80	79	79	79	78	74
20	81	83	85	84	81	82	83	81	76	72	69	68	66
21	86	85	85	85	86	85	85	82	76	71	71	70	68
22	84	85	86	85	85	86	86	80	78	74	**70**	69	66
23	78	79	80	80	80	80	79	75	70	68	67	65	64
24	79	79	80	80	79	79	79	75	72	70	67	67	66
25	75	77	78	78	78	79	77	74	72	69	68	65	64
26	77	77	79	78	77	77	75	74	71	67	67	64	64
27	77	78	77	77	76	78	77	74	69	66	64	64	63
28	77	77	78	78	79	79	78	75	72	69	69	67	66
29	80	80	79	80	80	81	77	74	72	70	67	67	65
30	77	77	78	76	77	78	75	73	72	69	68	64	61
31	77	79	78	77	77	78	77	72	71	70	66	64	61
Mean .	77·7	77·9	78·2	78·4	78·6	**79·2**	78·2	75·3	71·4	68·7	66·8	65·2	63·7
Mean* Vapour Pressure in inches of mercury.	" ·850	" ·850	" ·845	" ·839	" **·835**	" ·839	" ·845	" ·851	" ·850	" ·850	" ·850	" ·854	" ·853

JUNE.

1	77	77	77	76	79	79	75	74	70	68	64	62	60
2	79	78	77	77	76	76	72	69	67	66	66	67	68
3	77	78	78	81	79	78	76	76	70	66	68	67	69
4	78	80	79	80	83	83	81	78	74	70	69	66	68
5	78	79	80	79	79	79	79	79	83	85	75	69	67
6	81	83	83	84	85	81	83	80	74	71	66	65	64
7	83	79	78	79	83	83	80	76	74	71	68	67	66
8	74	75	76	79	77	75	75	74	67	67	65	63	63
9	75	76	78	76	78	78	76	73	72	67	64	64	64
10	79	77	79	78	77	77	77	75	70	69	67	67	67
11	80	80	79	79	79	80	79	78	76	73	72	71	68
12	85	86	85	87	88	89	89	87	83	80	79	77	76
13	83	87	89	92	88	88	89	86	84	82	79	77	72
14	86	85	86	87	88	90	90	86	83	93	93	94	91
15	93	91	92	95	93	91	91	92	91	94	94	94	95
16	92	90	92	**97**	93	93	92	93	95	88	86	84	81
17	85	86	86	86	86	83	89	92	90	91	91	93	90
18	93	91	88	90	92	91	89	88	88	89	91	93	92
19	89	88	85	88	91	92	92	92	93	92	91	90	89
20	89	88	88	93	91	89	90	89	85	85	83	81	80
21	86	90	90	89	88	86	88	87	85	83	79	77	77
22	89	87	85	86	83	83	88	88	85	87	81	79	79
23	87	89	81	89	86	89	86	86	82	80	82	82	78
24	83	85	87	85	86	85	85	83	81	81	79	79	77
25	85	85	83	86	87	87	85	84	83	81	79	77	75
26	83	83	83	84	86	85	84	84	84	80	78	76	74
27	82	83	83	83	85	85	85	84	87	84	77	78	73
28	88	90	89	86	89	92	92	90	88	93	88	90	83
29	89	90	92	93	92	90	91	89	85	85	82	83	85
30	89	90	90	90	91	90	89	88	84	83	81	83	80
Mean .	83·9	84·2	83·9	85·1	**85·3**	84·9	84·6	83·3	81·1	80·1	77·9	77·1	75·7
Mean* Vapour Pressure in inches of mercury.	" ·903	" ·901	" ·895	" ·898	" ·898	" **·893**	" ·900	" ·906	" ·911	" **·926**	" ·924	" ·926	" ·924

* Computed from mean temperatures and mean relative humidities.

MAY (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
62	62	63	65	70	73	74	76	75	76	78	72·9	·835	1
59	56	56	60	65	70	73	73	74	75	76	70·6	·803	2
62	62	66	68	72	77	79	82	83	81	81	72·7	·798	3
64	64	65	68	72	76	81	81	81	80	82	74·4	·819	4
63	64	66	68	73	78	80	80	78	77	78	74·6	·827	5
64	64	64	66	70	73	75	76	76	76	78	74·0	·828	6
64	64	64	66	68	72	73	74	75	75	75	72·3	·839	7
62	64	66	66	70	73	75	77	79	79	78	72·2	·843	8
62	64	67	66	69	71	72	73	74	75	75	72·0	·849	9
56	57	58	61	64	68	69	69	68	69	69	68·4	·811	10
59	59	60	62	64	67	69	69	69	69	69	65·5	·774	11
57	58	59	59	64	65	66	68	67	70	71	64·5	·768	12
59	59	61	62	63	65	69	70	71	71	69	66·7	·784	13
58	60	61	64	65	69	69	70	71	71	72	67·7	·788	14
60	61	61	65	69	73	75	77	75	75	75	69·7	·814	15
68	68	70	73	75	77	79	81	83	83	83	74·5	·872	16
68	68	69	71	77	81	83	84	83	83	83	78·0	·931	17
67	69	70	72	79	81	84	83	83	83	84	78·3	·917	18
69	67	68	70	74	77	81	81	81	82	81	78·8	·911	19
66	67	68	70	77	79	81	82	81	83	83	77·0	·908	20
66	64	67	70	76	80	82	82	83	83	85	78·0	·916	21
64	64	64	66	70	74	76	77	77	78	77	75·9	·903	22
64	63	64	65	68	71	72	74	73	76	78	72·2	·856	23
64	66	66	67	70	73	76	75	75	78	77	73·3	·892	24
63	63	66	68	69	71	74	75	74	75	75	72·0	·879	25
63	62	64	65	69	72	74	75	75	77	76	71·6	·878	26
63	63	63	65	67	71	74	75	74	74	74	71·0	·874	27
63	64	64	65	67	70	74	76	77	77	79	72·5	·902	28
63	63	63	64	68	71	76	75	76	76	76	72·6	·906	29
61	63	63	67	69	70	72	73	74	75	75	71·1	·882	30
62	65	66	66	69	72	73	75	76	77	76	71·8	·894	31
62·7	63·1	64·3	66·1	69·7	72·9	75·2	76·1	76·2	76·7	77·0	72·5	·855	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		Mean* Vapour Pressure in inches of mercury.
·850	·853	·855	·852	·856	·856	·864	·863	·861	·859	·854	·851		

JUNE.

												"	
59	59	59	66	67	71	74	77	78	78	78	71·0	·892	1
68	69	70	71	72	72	76	76	76	75	77	72·5	·908	2
70	70	68	69	70	72	73	74	67	81	78	73·1	·910	3
66	66	69	70	72	76	76	76	79	78	77	74·7	·924	4
68	71	71	73	76	79	79	78	81	80	81	77·0	·949	5
66	66	66	65	68	67	72	71	73	72	75	73·4	·905	6
65	61	65	66	69	70	72	74	77	74	74	73·1	·904	7
63	61	63	64	67	68	72	73	74	74	75	70·2	·882	8
66	64	64	64	66	69	72	72	73	79	80	71·3	·896	9
66	66	66	68	69	73	75	77	82	80	80	73·4	·905	10
69	72	76	77	76	78	77	78	79	81	83	76·7	·919	11
74	74	75	76	78	78	81	79	81	82	82	81·3	·949	12
69	68	75	76	77	77	79	79	83	84	85	81·2	·936	13
90	86	86	85	86	83	83	88	91	91	91	88·0	·914	14
95	90	91	93	90	91	90	88	85	84	89	91·3	·871	15
83	80	85	87	86	82	85	84	89	90	83	87·9	·841	16
89	93	91	89	91	89	85	89	90	89	90	88·9	·859	17
92	93	93	93	92	91	85	86	89	89	87	90·2	·878	18
85	82	84	84	85	86	84	86	86	86	89	87·9	·861	19
81	80	79	81	83	86	89	86	88	94	89	86·1	·915	20
79	87	88	85	87	87	87	87	88	87	90	85·7	·923	21
79	77	78	79	81	81	81	83	81	86	85	83·0	·923	22
81	83	83	81	81	80	81	81	82	81	83	83·1	·906	23
75	74	77	79	77	80	82	83	83	83	85	81·4	·932	24
76	76	74	75	76	79	81	82	82	82	83	81·0	·936	25
72	74	76	75	76	76	78	79	81	81	81	79·7	·930	26
72	74	76	78	77	79	79	81	85	84	82	80·7	·927	27
81	78	81	78	86	85	86	90	88	89	89	87·0	·889	28
89	90	91	91	91	90	92	90	92	92	90	89·3	·892	29
79	80	79	77	79	83	82	87	90	91	91	85·3	·904	30
75·6	75·5	76·6	77·2	78·4	79·3	80·3	81·1	82·4	83·2	83·4	80·8	·906	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		Mean* Vapour Pressure in inches of mercury.
·920	·916	·920	·916	·912	·902	·902	·902	·899	·902	·901	·908		

* Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	93	92	91	91	91	91	89	88	86	85	82	82	81	89
2	89	92	93	91	93	93	93	93	92	92	89	88	93	90
3	93	93	92	91	91	92	92	92	93	95	93	90	90	91
4	91	91	92	90	89	90	90	90	88	87	89	89	87	87
5	90	89	90	91	91	93	92	92	92	89	91	89	89	88
6	89	88	90	87	87	87	86	86	88	89	87	85	86	83
7	87	85	84	85	87	85	88	86	87	88	87	84	83	82
8	84	84	85	85	83	84	84	83	85	81	83	81	81	79
9	84	85	84	83	84	85	81	83	80	81	79	78	76	76
10	85	85	83	82	83	83	82	84	81	85	87	83	83	80
11	85	85	86	85	85	84	84	82	82	81	80	80	77	78
12	83	85	85	85	85	84	84	84	83	82	81	80	81	81
13	85	86	84	84	83	83	84	85	83	83	82	82	81	84
14	85	84	86	86	85	87	85	85	85	82	81	81	78	79
15	85	83	85	87	84	83	84	85	82	81	79	77	77	77
16	83	85	87	87	85	86	86	85	83	81	79	79	78	76
17	82	81	82	80	86	84	83	84	85	81	79	78	78	81
18	84	84	83	84	83	83	81	84	93	90	87	85	90	87
19	86	86	85	84	85	85	85	87	84	84	88	81	79	78
20	86	85	86	85	82	86	89	86	85	83	81	79	83	82
21	90	87	88	87	85	86	85	87	87	94	93	89	85	83
22	87	84	86	88	83	85	85	83	82	86	92	92	90	90
23	88	87	87	85	86	85	84	84	83	81	82	81	85	83
24	84	84	83	79	83	82	83	83	82	83	86	84	87	87
25	88	88	89	88	87	87	37	86	87	87	86	86	85	84
26	86	85	85	86	86	84	82	82	85	86	90	89	89	86
27	84	86	85	85	84	84	83	84	84	84	82	82	81	84
28	86	86	83	85	84	84	84	83	83	83	84	82	82	82
29	89	88	85	84	82	85	83	84	85	85	82	82	85	81
30	87	87	85	88	89	88	87	87	85	84	82	82	78	79
31	86	85	86	86	88	91	90	91	87	87	89	91	85	83
Mean . .	86·6	86·3	86·3	85·9	85·8	86·1	85·6	85.7	85·4	85·2	84·9	83·6	83·3	82·9
*Mean Vapour Pressure in inches of mercury.	·894	·888	·885	·881	·880	·883	·880	·890	·896	·903	·914	·915	·914	·919

AUGUST.

1	88	87	87	86	86	88	87	88	91	93	91	88	85	86
2	86	86	86	86	85	85	85	83	83	81	81	82	81	80
3	84	85	85	85	85	90	87	88	83	82	81	78	81	78
4	81	81	82	84	84	85	83	83	80	85	84	88	90	89
5	82	84	88	87	85	85	86	85	86	85	85	83	81	80
6	87	85	86	86	86	85	85	86	83	83	81	81	81	82
7	89	88	87	86	85	85	85	85	85	83	81	81	76	80
8	86	85	86	85	84	86	85	85	85	85	85	83	81	80
9	85	85	84	85	85	85	85	85	87	89	86	84	80	80
10	85	85	85	85	84	85	84	84	81	81	78	79	79	78
11	87	89	88	85	84	84	85	85	83	83	82	81	82	85
12	84	84	86	84	85	83	84	87	90	90	89	86	85	84
13	89	91	92	87	86	89	89	85	88	86	83	85	79	80
14	89	88	88	86	86	88	87	91	89	86	84	83	86	83
15	86	87	86	86	86	85	86	88	87	86	84	83	83	83
16	81	82	82	87	86	87	87	88	87	88	86	87	86	86
17	83	81	82	84	86	86	88	92	90	85	86	83	88	85
18	85	85	86	86	85	85	86	84	82	84	81	82	82	79
19	83	83	85	87	86	85	86	85	82	80	81	82	84	79
20	83	82	83	82	84	84	86	82	82	82	82	84	81	81
21	84	86	88	87	86	87	82	81	78	82	83	86	84	87
22	86	85	85	87	88	89	88	88	87	86	83	81	79	79
23	89	86	85	85	84	84	83	83	84	83	81	80	81	79
24	85	84	86	86	84	83	84	83	83	83	79	79	80	77
25	87	91	86	84	84	84	84	84	85	85	85	87	84	81
26	87	89	86	86	88	89	93	94	92	88	83	82	79	79
27	83	85	85	85	86	87	88	91	89	85	82	84	83	81
28	83	84	86	86	85	86	88	86	84	83	81	78	76	74
29	84	4	84	84	85	86	85	85	89	84	81	78	77	81
30	82	82	82	85	84	84	86	83	83	80	79	77	85	81
31	83	86	86	86	85	83	85	85	83	81	78	81	83	79
Mean . .	85·0	85·3	85·6	85·5	85·2	85·7	85·9	85·9	85·2	84·4	82·7	82·4	82·0	81·2
*Mean Vapour Pressure in inches of mercury.	·841	·841	·841	·837	·834	·837	·838	·850	·865	·871	·882	·881	·886	·886

*Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES

Hours.										Mean.	* Mean Vapour Pressure. in inches Mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
83	82	83	84	86	90	91	92	90	90	87·6	·925	1
89	89	92	93	93	93	**95**	93	93	93	**91·8**	·932	2
90	89	87	87	86	85	86	87	85	87	89·9	·919	3
89	91	89	88	88	88	89	91	93	91	89·5	**·939**	4
87	87	84	84	83	86	88	90	88	91	88·9	·920	5
83	83	84	87	87	87	84	84	84	84	86·0	·905	6
81	83	84	82	85	85	84	87	89	87	85·2	·908	7
78	81	81	82	82	83	89	85	84	85	93·0	·908	8
75	76	79	82	84	84	82	84	87	87	81·6	·896	9
77	81	83	80	85	82	83	84	89	85	83·1	·892	10
79	77	81	78	85	84	85	85	**85**	85	82·4	·905	11
82	82	85	87	86	84	84	85	85	85	83·7	·904	12
81	81	81	82	81	81	83	85	84	85	83·0	·908	13
77	80	79	79	81	82	83	84	85	86	82·7	·914	14
84	80	78	79	82	84	85	85	85	84	82·3	·912	15
76	**73**	77	79	80	81	81	81	81	81	**81·3**	·907	16
77	87	87	83	80	83	85	85	84	84	82·5	·891	17
84	83	84	84	81	82	82	83	83	88	84·7	·888	18
79	77	79	83	87	85	87	87	87	87	84·0	·896	19
83	86	87	84	84	89	87	87	94	92	85·5	·899	20
83	83	82	81	82	83	82	83	85	87	85·7	·893	21
88	82	84	87	87	83	85	85	86	85	86·0	·870	22
81	84	79	85	85	87	86	85	85	87	84·4	·897	23
85	88	91	89	92	89	89	87	87	89	85·7	·884	24
86	86	85	89	90	85	87	85	87	87	86·7	·877	25
85	85	86	86	85	85	86	85	84	85	85·5	·857	26
86	86	84	89	86	86	86	88	88	85	84·8	**·850**	27
89	84	85	86	89	89	89	89	89	86	85·3	·855	28
78	81	85	85	87	91	88	87	87	86	84·8	·864	29
77	81	82	83	86	86	84	84	85	85	84·2	·883	30
83	80	81	86	86	86	85	87	86	88	86·4	·880	31
82·4	82·8	83·5	84·3	85·2	85·4	85·8	86·3	86·6	**86·7**	85·1	·896	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·911	·900	·899	·896	·894	·890	·891	·896	·894	·895	·896		

AUGUST.

87	86	83	84	85	86	86	85	85	84	**86·7**	·866	1
79	81	79	79	83	82	82	83	82	83	82·6	·861	2
76	75	76	77	78	80	81	82	81	82	**81·7**	·851	3
85	81	82	80	80	80	80	81	81	82	83·0	·837	4
79	80	80	82	81	82	81	82	83	85	83·2	·861	5
81	81	83	84	85	86	85	87	87	88	84·3	**·884**	6
79	81	82	82	81	82	85	85	85	86	83·5	·867	7
79	81	84	84	83	82	89	86	85	85	83·9	·863	8
78	79	81	83	84	84	84	85	84	85	83·8	·865	9
82	84	80	80	81	83	83	84	85	85	82·5	·860	10
84	85	83	85	88	89	84	89	90	87	85·3	·877	11
79	83	85	84	84	83	86	91	91	87	85·6	·855	12
82	80	81	82	85	88	90	90	89	88	86·0	·867	13
86	83	83	84	86	86	85	84	84	84	85·8	·863	14
79	78	79	78	82	82	81	82	83	82	83·4	·839	15
81	78	78	75	81	82	81	80	81	81	83·3	**·829**	16
85	81	81	78	81	82	83	83	82	83	84·1	·837	17
79	81	78	81	82	82	82	83	85	86	83·0	·843	18
74	78	79	78	79	84	82	82	83	85	82·2	·835	19
85	83	85	81	81	88	83	86	88	85	83·5	·837	20
83	85	84	84	83	82	84	86	86	86	84·3	·845	21
81	80	83	85	89	90	89	88	89	86	85·5	·871	22
81	81	81	80	83	82	82	81	82	84	82·7	·862	23
77	81	83	87	85	86	85	85	85	84	83·1	·858	24
79	79	79	80	81	83	85	84	87	87	84·0	·867	25
80	80	79	79	78	80	82	84	84	84	84·4	·862	26
83	82	86	90	87	87	87	85	84	84	85·4	·861	27
78	76	77	83	83	83	84	84	84	86	82·4	·853	28
83	86	86	84	82	84	82	82	82	82	83·3	·848	29
78	83	83	82	82	80	82	88	86	83	82·5	·843	30
78	80	80	80	82	82	86	84	86	86	82·8	·832	31
80·6	81·0	81·4	81·8	82·7	83·6	83·9	84·5	84·8	84·7	83·8	·855	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·882	·872	·865	·853	·842	·843	·841	·844	·844	·840	·855		

*Computed from mean temperatures and mean relative humiditi.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES).

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	82	86	87	83	82	84	86	85	86	85	78	77	75	86
2	81	83	83	83	83	83	83	83	83	79	76	80	84	81
3	83	83	84	84	84	84	84	84	79	79	75	75	75	78
4	80	81	81	81	81	81	82	82	80	79	78	75	74	74
5	83	83	82	82	82	81	82	80	80	77	76	74	72	70
6	78	78	77	77	78	79	77	76	75	74	72	71	74	74
7	77	78	78	78	79	80	80	78	76	75	75	71	71	73
8	83	83	82	82	82	82	82	81	82	87	82	78	71	71
9	84	84	82	84	84	83	86	89	85	75	76	76	74	74
10	82	84	81	39	89	90	90	89	87	83	79	75	74	74
11	81	82	85	86	89	90	89	87	83	78	77	75	71	74
12	83	85	86	87	87	86	87	85	84	81	81	79	78	77
13	88	87	90	91	90	89	89	89	89	86	81	80	78	80
14	91	90	91	91	91	92	92	89	87	83	79	77	78	79
15	91	91	93	93	93	93	93	90	89	86	85	79	78	76
16	87	87	89	87	87	87	91	88	85	82	76	73	73	75
17	81	82	84	83	85	86	86	86	82	77	77	77	76	75
18	86	87	90	90	91	93	93	91	90	87	86	85	82	79
19	84	84	87	89	91	91	92	88	87	86	84	82	80	78
20	91	89	86	86	89	91	89	88	91	90	85	82	85	83
21	91	90	87	86	86	86	85	84	82	81	81	80	81	81
22	86	86	86	86	86	86	86	82	80	79	79	79	84	89
23	93	91	92	91	91	90	91	90	87	89	87	84	83	82
24	89	88	89	90	90	89	91	89	89	87	82	82	79	78
25	88	89	91	90	91	91	90	88	86	83	81	78	72	71
26	86	86	89	90	92	92	92	92	90	88	85	80	83	77
27	87	89	92	91	91	91	92	91	89	86	84	83	82	81
28	89	89	92	91	92	92	93	92	90	90	89	87	87	88
29	94	93	93	92	93	91	92	91	90	88	86	83	82	80
30	91	92	93	93	93	93	92	91	91	87	83	81	80	79
Mean . .	85·7	86·0	86·7	86·9	87·4	87·5	**87·9**	86·6	85·1	82·9	80·5	78·6	77·9	77·9
*Mean Vapour Pressure in inches of mercury.	·859	·851	·852	·851	**·850**	·851	·864	·874	·890	.893	·898	·894	·898	**·901**

OCTOBER.

1	89	92	93	**94**	93	94	94	93	91	90	88	86	87	87
2	86	86	91	91	90	92	92	91	91	90	90	90	89	86
3	87	87	88	86	88	92	92	91	91	86	82	83	80	77
4	89	91	92	90	90	91	91	92	92	90	88	86	82	79
5	77	76	77	76	78	81	84	81	74	74	71	69	69	70
6	74	73	72	75	74	75	74	77	74	70	71	73	79	76
7	86	89	88	88	87	87	90	89	86	84	80	76	76	77
8	82	84	86	91	91	90	90	88	86	83	80	78	76	75
9	88	85	89	90	91	92	92	91	87	84	82	80	79	78
10	92	88	90	90	93	92	92	91	89	86	82	83	77	76
11	86	87	91	92	91	91	91	89	87	86	82	82	81	78
12	90	89	89	90	89	89	88	88	83	79	74	72	73	71
13	87	87	86	87	90	89	88	86	85	84	78	74	73	72
14	85	84	84	87	86	88	88	88	85	82	77	75	74	65
15	88	88	88	86	86	85	88	90	89	86	83	79	76	75
16	85	85	86	85	86	87	87	86	85	82	82	78	74	73
17	81	81	85	89	88	85	89	90	87	84	79	77	74	74
18	83	83	85	85	84	85	85	81	78	76	76	75	71	71
19	86	88	87	87	89	88	88	84	79	79	77	77	77	73
20	83	83	84	83	85	85	86	86	81	76	74	75	75	75
21	81	79	81	84	84	85	86	86	84	81	82	80	80	79
22	88	88	88	90	89	86	85	80	81	78	72	66	60	66
23	79	84	83	80	78	85	86	84	78	74	71	62	47	49
24	82	77	81	82	83	85	85	83	78	76	71	66	·54	**51**
25	81	79	80	83	82	83	84	83	78	72	68	59	52	**51**
26	80	83	83	82	81	83	85	83	77	77	66	63	55	46
27	75	75	75	75	81	82	81	78	80	76	69	66	58	60
28	79	79	80	80	81	81	85	84	79	78	73	66	62	65
29	86	86	87	87	86	88	85	84	80	76	73	68	55	51
30	83	84	82	79	77	79	83	83	76	65	50	43	37	37
31	77	77	73	74	72	71	68	65	62	54	48	45	40	41
Mean . .	83·4	83·8	84·6	85·2	85·3	86·0	**86·5**	85·4	82·4	79·3	75·5	72·6	69·1	**67·9**
*Mean Vapour Pressure in inches of mercury.	·841	·831	·831	·832	·827	**·826**	·836	·853	**·867**	·868	·856	·850	·833	·829

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.

Hours.										Mean.	Mean Vapour Pressure.*	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
87	88	90	88	84	81	80	81	83	81	83·1	·819	1
77	74	76	81	81	80	81	82	82	82	80·9	·846	2
72	74	73	75	76	80	86	80	80	80	79·5	·845	3
72	71	70	73	77	77	78	80	84	83	78·1	·835	4
72	70	70	72	73	74	73	76	78	78	76·7	·820	5
73	73	72	71	71	74	76	77	78	78	**75·1**	**·790**	6
72	**69**	73	77	76	76	79	79	80	80	76·3	·803	7
71	70	69	75	79	88	83	83	82	82	79·6	·827	8
73	75	73	75	77	79	80	80	82	82	79·7	·844	9
71	70	71	73	**78**	78	79	80	80	79	80·2	·852	10
74	73	72	72	75	77	78	81	83	83	79·8	·854	11
78	80	83	**83**	83	85	85	86	86	87	83·4	·922	12
79	79	79	81	84	85	87	88	89	89	85·3	·915	13
79	82	84	85	86	87	86	84	88	89	85·8	**·933**	14
76	76	76	77	81	83	83	83	86	86	84·9	·905	15
74	74	75	77	78	79	80	80	81	82	81·1	·873	16
76	76	76	81	84	84	**84**	85	86	85	81·4	·879	17
78	79	84	88	83	81	79	79	84	86	85·3	·918	18
77	79	87	**88**	87	88	85	84	87	90	85·6	·892	19
82	**82**	82	84	83	87	90	89	91	92	87·0	·907	20
79	78	82	84	82	87	87	86	86	85	84·0	·878	21
82	78	81	83	86	89	90	91	92	93	85·0	·883	22
85	82	83	84	84	82	83	83	87	87	86·7	·883	23
77	77	76	80	81	78	83	85	86	87	84·2	·883	24
74	75	75	76	77	79	81	81	84	85	82·3	·901	25
77	79	81	81	81	80	81	82	85	87	84·8	**·855**	26
79	77	83	83	90	87	88	91	90	89	86·9	·900	27
87	91	93	92	93	93	93	93	**94**	93	**91·0**	·897	28
79	79	80	83	86	89	91	90	91	90	87·7	·893	29
77	78	79	81	82	85	86	83	86	88	86·0	**·917**	30
77·0	**76·9**	78·3	79·9	81·3	82·4	83·2	83·4	85·0	85·3	82·9	·872	Mean.
"	"	"	"	"	"	"	"	"	"	"		Mean* Vapour Pressure in inches of mercury.
·893	·878	·876	·871	·864	·864	·864	·858	·866	·866	.872		

OCTOBER.

89	84	85	88	89	88	86	88	89	88	**89·4**	·890	1
88	89	88	90	90	89	89	88	88	87	89·2	·874	2
77	76	75	78	79	79	86	86	85	86	84·0	·887	3
79	81	79	78	79	79	79	78	78	79	84·7	·846	4
66	66	67	69	72	72	73	73	74	75	73·5	·766	5
75	76	78	79	78	76	80	82	84	86	76·3	·782	6
77	78	77	74	75	76	77	79	80	81	81·5	·833	7
80	83	79	78	84	84	85	85	85	88	83·8	·879	8
79	75	76	79	80	83	82	79	79	79	83·3	·857	9
75	75	76	80	83	80	83	83	81	84	83·8	·837	10
80	78	78	78	83	83	84	86	86	88	84·9	·856	11
75	75	76	79	84	84	84	87	88	88	82·7	·868	12
70	68	68	70	74	74	78	82	84	84	79·9	·833	13
66	70	72	74	78	81	81	83	85	88	80·3	·842	14
73	67	63	70	74	79	79	87	81	84	80·6	·876	15
73	74	76	78	75	75	80	83	84	81	80·8	·878	16
73	72	72	74	76	78	79	79	81	81	80·3	·873	17
72	75	77	79	81	82	83	83	84	84	79·9	·877	18
72	72	77	78	82	82	83	83	85	86	81·6	·899	19
75	76	78	80	81	82	84	83	87	86	81·1	·873	20
80	80	82	85	87	86	88	89	88	88	83·5	**·905**	21
72	72	76	77	80	82	84	84	84	82	79·7	·895	22
56	59	65	69	75	76	79	78	75	78	72·9	·827	23
61	62	66	71	74	78	78	74	72	80	73·7	·820	24
45	57	67	69	71	71	72	76	74	70	71·1	·806	25
48	52	57	64	71	75	72	71	71	75	70·8	·800	26
51	52	53	66	75	78	82	83	83	82	72·3	·820	27
63	66	72	77	77	80	82	78	80	85	76·3	·846	28
53	64	70	75	77	79	77	79	75	72	75·5	·862	29
35	47	65	67	69	76	78	81	78	78	68·0	·786	30
46	55	60	63	62	64	60	68	61	55	**60·9**	**·669**	31
68·5	70·2	72·6	75·4	77·9	79·1	80·2	80·9	80·9	81·5	78·9	·844	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·834	·846	·845	·844	·852	·854	·852	·849	·835	·833	·843		

* Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	55	56	50	53	56	61	63	62	55	54	46	43	40	45
2	45	44	42	44	45	49	51	57	52	50	50	55	64	68
3	77	73	68	67	68	70	71	71	69	68	66	66	66	65
4	86	84	87	87	87	86	87	86	84	81	76	74	73	73
5	84	85	83	81	84	86	84	80	85	72	66	63	69	67
6	83	85	85	85	84	82	82	85	77	74	67	62	58	61
7	76	82	83	83	83	84	86	83	80	77	73	66	68	67
8	81	77	71	64	68	74	70	74	74	64	56	56	61	63
9	84	85	86	88	85	83	86	84	83	81	72	66	61	64
10	82	74	77	80	80	82	81	75	76	70	69	71	71	62
11	88	89	88	88	89	88	90	88	88	86	86	86	87	89
12	84	81	79	77	74	74	81	83	80	85	90	92	92	89
13	95	95	95	95	95	96	96	96	95	91	90	89	85	84
14	89	87	85	84	87	87	87	87	85	83	79	74	75	75
15	75	77	75	74	77	77	77	77	73	72	67	65	62	57
16	63	67	66	65	65	66	70	68	66	64	61	58	58	56
17	49	60	62	63	64	64	62	64	62	60	55	49	46	43
18	75	76	78	76	78	78	75	73	67	68	67	61	50	43
19	71	69	71	71	74	76	77	74	69	68	67	63	51	39
20	64	66	75	74	76	77	77	74	71	68	64	65	62	43
21	64	68	70	72	73	75	77	75	70	67	67	58	49	50
22	63	64	69	70	75	75	75	75	73	70	65	60	55	47
23	74	70	70	73	75	75	78	79	74	69	64	63	54	44
24	66	66	74	77	78	77	77	77	75	72	67	60	48	46
25	76	76	79	79	82	82	82	80	78	72	68	66	52	47
26	74	78	79	79	78	81	82	80	75	70	65	64	52	43
27	77	74	68	68	75	78	82	76	68	59	53	57	47	41
28	76	76	80	81	82	82	80	77	72	66	64	52	46	37
29	78	74	74	77	75	76	76	74	70	68	64	58	53	51
30	69	79	81	80	83	84	82	79	79	69	63	61	58	51
Mean . .	74·1	74·6	75·0	75·2	76·5	77·5	78·1	77·1	74·2	70·6	66·9	64·1	60·4	57·0
Mean* Vapour Pressure in inches of mercury.	·619	·617	·614	·611	·614	·617	·618	·623	·636	·643	·651	·651	·638	·618

DECEMBER.

1	78	75	80	78	81	79	78	75	72	69	66	59	49	51
2	85	84	84	84	83	83	83	83	80	72	71	68	59	51
3	76	80	83	85	85	84	85	85	79	75	71	67	61	63
4	87	88	88	88	86	86	88	88	83	79	75	69	70	70
5	72	77	85	86	85	88	88	83	81	80	79	73	69	70
6	89	90	90	90	89	88	81	81	72	71	67	53	45	43
7	64	58	63	60	59	56	51	55	53	51	54	53	51	45
8	70	74	72	74	74	69	66	57	84	51	53	52	48	43
9	78	68	67	75	72	71	73	68	63	60	61	55	51	44
10	74	78	79	79	80	82	80	80	78	72	66	65	63	56
11	77	76	78	78	83	84	81	83	80	75	73	66	56	55
12	85	84	85	85	85	84	85	84	81	77	70	64	54	62
13	84	85	81	84	85	85	88	85	83	80	71	58	55	58
14	84	87	88	86	82	84	84	84	83	77	71	68	59	56
15	83	85	82	81	83	84	85	83	79	75	68	53	51	60
16	80	86	88	88	85	80	79	78	77	76	70	62	53	50
17	84	83	82	83	80	71	75	72	69	67	62	56	51	49
18	82	83	81	80	81	80	76	77	74	74	75	71	71	67
19	84	88	87	79	75	73	72	74	69	70	73	71	70	73
20	80	79	77	76	78	79	74	76	69	59	52	47	42	45
21	58	59	56	52	52	55	55	55	54	55	53	51	54	55
22	69	70	68	69	66	63	66	70	71	68	63	63	64	66
23	80	80	78	81	83	83	83	83	81	78	71	61	66	70
24	81	80	80	82	83	84	84	86	83	78	74	68	53	58
25	80	82	83	82	80	83	81	81	79	76	73	70	58	48
26	88	87	83	83	87	83	81	79	78	77	72	64	56	60
27	81	82	82	83	85	85	85	85	81	78	73	72	69	67
28	83	85	85	86	88	88	88	88	83	76	71	67	67	66
29	89	87	88	90	90	90	90	90	86	83	69	65	66	66
30	85	87	88	86	88	88	86	87	83	80	77	75	69	66
31	70	68	65	68	70	73	76	81	79	74	66	63	61	78
Mean . .	79·4	79·8	79·9	80·0	80·1	79·5	78·9	78·5	75·4	72·0	68·1	62·9	58·4	58·4
Mean* Vapour Pressure in inches of mercury.	·656	·651	·643	·637	·834	·623	·614	·621	·630	·636	·645	·630	·617	·625

* Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGE S

Hours.										Mean.	Mean Vapour Pressure.*	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
50	58	61	64	68	63	55	55	52	50	54·8	·594	1
70	73	69	69	74	77	74	68	73	81	60·2	·657	2
66	66	71	77	77	79	81	81	82	84	72·0	·768	3
74	75	79	80	83	82	82	82	82	83	81·4	·792	4
70	74	79	83	83	80	80	84	82	81	78·5	·800	5
66	70	73	78	79	79	78	76	78	75	75·9	·833	6
70	71	76	79	75	78	79	81	74	73	77·0	·797	7
64	65	70	73	77	82	83	84	84	80	71·5	·707	8
65	70	69	72	75	76	73	74	74	80	76·5	·800	9
62	67	78	80	80	74	75	77	81	90	75·6	·768	10
90	90	90	92	93	93	92	93	92	88	89·3	·774	11
88	89	89	89	89	89	93	94	94	95	86·3	·629	12
85	88	91	91	91	92	90	90	90	90	91·5	·665	13
74	76	77	80	81	82	81	83	79	75	81·3	·639	14
57	61	67	72	75	77	66	55	58	61	68·9	·577	15
56	53	43	42	40	39	45	50	54	48	56·8	·510	16
45	45	50	57	67	69	70	67	74	76	59.3	·517	17
39	37	41	52	64	69	69	62	59	70	63·6	·549	18
36	37	39	46	57	60	68	69	63	62	61·5	·521	19
39	55	57	62	68	73	72	67	63	62	65·6	·544	20
59	62	66	69	72	72	66	64	62	61	66·2	·564	21
39	41	46	58	67	71	69	67	65	70	63·7	·552	22
40	41	47	54	59	65	71	64	60	61	63·5	·543	23
46	48	50	55	65	69	73	73	70	73	65·9	·571	24
46	46	55	61	67	75	76	77	72	68	69·3	·606	25
39	54	62	63	67	71	76	77	76	77	69·3	·610	26
39	40	47	50	58	64	68	68	65	72	62·3	·533	27
41	48	54	61	67	68	74	73	72	74	66·8	·561	28
54	55	58	62	69	72	75	76	73	71	68·0	·589	29
48	50	62	61	70	70	67	69	71	77	69·3	·631	30
57·2	60·2	63·9	67·7	71·9	73·3	74·0	73·3	72·5	73·6	70·4	·640	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·622	·640	·649	·659	·677	·676	·667	·646	·618	·617	·635		Mean* Vapour Pressure in inches of mercury.

DECEMBER.

66	68	73	74	78	79	76	77	74	75	72·1	·683	1
49	59	68	75	80	77	75	76	75	73	74·0	·672	2
61	61	67	75	81	85	87	86	87	86	77·3	·692	3
68	65	66	71	75	77	82	83	81	76	78·7	·696	4
70	73	78	82	84	84	83	85	87	88	80·4	·725	5
47	36	57	68	72	71	77	77	77	72	71·0	·675	6
40	38	37	51	70	74	76	76	71	76	57·6	·589	7
44	54	64	70	71	75	76	74	79	80	64·3	·597	8
47	55	64	67	71	75	77	74	74	74	66·0	·597	9
53	56	62	67	74	73	79	78	74	76	71·8	·612	10
57	61	66	69	75	79	79	77	79	80	73·6	·638	11
64	65	70	75	79	81	84	86	84	80	77·2	·694	12
56	56	61	71	77	80	84	85	84	83	75·8	·697	13
49	53	65	70	75	78	81	83	72	81	75·0	·694	14
58	63	69	73	76	78	80	75	68	73	73·5	·678	15
49	57	62	67	72	75	80	76	72	77	72·5	·673	16
54	58	62	67	72	75	79	82	78	79	70·4	·671	17
65	68	71	74	77	78	80	79	82	83	76·2	·717	18
71	68	67	71	74	76	75	77	78	77	74·7	·643	19
47	51	55	59	59	58	55	53	57	60	62·0	·465	20
55	60	65	69	70	72	71	72	70	68	59·8	·457	21
69	70	76	76	77	75	74	74	80	81	70·3	·581	22
70	72	75	79	80	78	76	75	77	79	76·6	·677	23
65	67	69	71	79	82	79	77	77	81	75·9	·693	24
53	61	66	72	78	82	83	84	81	82	74·9	·693	25
58	58	63	69	75	78	76	77	80	80	74·7	·703	26
68	68	69	74	78	79	82	83	84	81	78·1	·718	27
67	67	71	75	76	79	81	85	88	89	79·1	·704	28
64	63	66	69	71	73	75	79	83	83	78·1	·683	29
60	63	67	71	72	71	67	66	66	66	75·5	·663	30
73	74	57	57	58	62	63	63	62	64	67·7	·579	31
58·6	60·9	65·4	70·3	74·4	76·1	77·2	77·2	76·8	77·5	72·7	·654	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·631	·647	·668	·686	·700	·700	·691	·673	·653	·647	.648		Mean* Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

Notation :—H=High clouds (Ci, Ci-S) ; M=Medium clouds (Ci-Cu,

JANUARY.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.									
	H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.
1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
2	..	..	†	..	..	..	..	..	..	7	5	1	0	0	0	0
3	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
4	‡	..	..	..	..	..	..	..	..	1	4	4	2	3	0	0
5	..	..	..	..	..	*	..	..	..	0	0	0	1	0	0	0
6	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
7	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
8	..	..	§	§	..	W	..	..	*	0	10	8	9	5	1	0
9	..	..	..	‡	..	..	..	..	..	0	0	0	1	1	0	0
10	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
11	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
12	..	..	..	..	..	..	*	..	..	0	0	0	0	0	1	0
13	‡	..	..	§	..	..	§	..	..	0	1	6	9	5	7	0
14	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
15	‡	..	..	..	..	..	..	..	..	5	6	4	0	0	0	0
16	..	..	..	‡	..	..	..	..	..	0	0	2	3	0	0	0
17	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
19	*	..	..	‡	†	..	†	..	..	4	2	2	3	2	1	0
20	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
21	*	..	..	‡	..	..	‡	..	..	5	5	4	4	2	1	0
22	‡	..	..	W	..	..	..	..	..	6	7	6	6	7	0	1
23	..	..	..	..	..	..	‡	..	..	6	1	0	0	1	3	0
24	WNW	..	..	†	..	..	‡	..	..	5	4	2	1	0	4	0
25	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
26	..	..	..	..	..	..	W	..	..	0	0	0	0	1	6	0
27	*	..	..	‡	..	..	W	..	..	2	5	4	3	5	4	0
28	..	..	..	W	..	..	*	..	..	0	0	0	6	5	6	0
29	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
30	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
31	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
Mean cloud amount.										1·4	1·6	1·4	1·5	1·2	1·1	0·0

MARCH.

1	*	..	..	..	..	..	‡	..	..	2	2	2	0	3	4	0
2	..	..	..	‡	..	..	SW	..	..	2	1	0	1	6	7	0
3	W	..	..	*	SW	..	*	..	..	5	8	6	6	2	3	0
4	..	..	..	..	..	..	‡	..	..	0	0	0	0	0	1	0
5	..	*	N	‡	..	..	..	..	..	2	6	5	3	0	0	0
6	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
7	..	..	..	..	..	.	..	..	..	0	0	0	0	0	0	0
8	‡	..	..	‡	..	..	..	*	..	2	3	3	4	3	0	7
9	..	..	S	..	..	*	..	..	..	4	9	5	1	0	0	3
10	..	..	..	..	..	..	..	..	..	3	0	0	0	2	0	1
11	..	..	..	..	..	..	..	..	..	5	0	0	0	0	0	1
12	..	..	..	..	..	..	‡	..	..	2	0	0	0	1	3	0
13	..	..	SW	..	..	..	..	..	..	5	7	7	0	0	0	0
14	..	WSW	..	..	..	..	..	..	..	2	5	0	0	1	0	1
15	..	..	N	..	W	..	..	SE	..	9	5	0	2	1	2	0
16	§	§	..	..	S	..	..	W	..	4	5	9	6	2	7	0
17	..	S	..	..	..	SSW	..	..	..	5	1	3	5	2	1	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
20	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
21	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
22	..	..	..	‡	..	..	‡	..	..	2	0	0	5	3	7	3
23	..	..	N	*	..	..	†	..	..	1	4	4	1	0	2	0
24	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
25	..	..	..	..	..	..	..	..	..	1	1	0	0	0	0	0
26	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
27	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
28	..	..	..	..	..	..	..	..	..	0	1	0	0	0	0	0
29	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
30	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
31	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
Mean cloud amount.										1·8	1·9	1·4	1·1	0·8	1·2	0·5

..No cloud.
†Scattered on the horizon.
‡Haze.
*At low angle.
§ Overcast.

A-Cu, A-S) ; L=Low clouds (Cu, Cu-N, S, N).

FEBRUARY.

Cloud Forms (coming from)									Cloud Amount (All Forms).							Day.
8½h.			12½h.			16½h.										
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	1
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	2
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	3
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0	4
..	SSW	SSW	..	..	..	..	..	..	4	7	5	0	0	0	0	5
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	6
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	7
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	8
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	9
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	10
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	11
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	1	0	0	0	0	0	13
..	SW	..	..	*	..	..	..	W	5	1	3	1	0	7	1	14
..	..	W	..	..	*	..	..	..	1	9	2	1	0	0	3	15
..	..	..	..	..	..	..	..	NW	2	1	1	0	2	1	0	16
..	..	§	..	..	..	..	..	..	9	9	0	0	0	0	0	17
..	..	NNW	..	..	..	..	..	..	5	1	6	0	0	0	0	18
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	19
..	..	..	W	..	..	..	..	§	0	1	1	7	7	9	9	20
..	..	SW	..	SW	..	..	..	§	7	6	7	8	8	10	9	21
..	N	W	..	..	†	..	†	SW	5	4	6	1	1	1	0	22
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	23
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	24
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	25
..	..	..	..	..	..	‡	..	..	1	0	0	0	6	6	0	26
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	27
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0	28
									1·5	1·4	1·1	0·6	0·9	1·2	0·8	Mean cloud amount.

APRIL.

..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	1
..	SW	..	..	..	..	..	..	..	0	2	2	0	0	0	0	2
..	..	..	..	..	..	..	..	..	10	4	0	0	0	0	0	3
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	4
..	..	..	..	..	..	†	NW	..	2	0	0	0	1	1	0	5
..	..	†	..	..	..	..	..	..	0	1	2	0	0	0	1	6
..	..	NE	..	..	..	..	..	..	0	2	0	0	0	0	0	7
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	8
..	..	..	‡	..	..	‡	..	..	0	0	0	2	5	8	0	9
*	..	N	..	..	..	..	..	..	2	5	1	0	0	0	0	10
..	..	N	..	..	..	..	..	..	1	7	0	0	0	0	0	11
..	..	N	..	..	..	..	..	..	4	8	1	0	0	0	0	12
..	..	..	..	..	..	NW	..	..	0	0	0	0	0	4	0	13
..	..	..	..	..	..	..	..	..	3	1	0	0	0	0	0	14
..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	0	15
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	16
..	..	N	..	..	*	..	..	WNW	4	7	2	2	2	6	0	17
..	..	*	..	..	W	..	..	W	6	3	7	4	5	5	0	18
..	..	WNW	..	..	..	..	..	..	5	6	1	0	0	0	0	19
..	..	..	..	..	..	..	..	..	4	0	0	0	0	0	0	20
..	S	..	..	*	..	..	..	..	6	5	1	2	0	0	0	21
..	S	..	..	SW	..	..	..	..	7	3	1	4	1	0	0	22
..	..	..	..	*	..	‡	..	..	4	0	4	3	2	1	0	23
..	SW	..	..	SSW	..	‡	..	..	6	6	7	6	9	8	0	24
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	25
..	..	..	‡	..	..	*	..	..	2	0	0	3	5	2	4	26
..	..	*	..	..	NW	..	..	*	2	2	1	2	2	1	0	27
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	28
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	29
..	..	..	..	..	..	..	..	..	4	1	0	0	2	0	5	30
									2·5	2·1	1·0	0·9	1·1	1·2	0·3	Mean cloud amount.

..No cloud.
†Scattered on the horizon.
‡Haze.
*At low angle.
§Overcast.

Notation :—H=High clouds (Ci, Ci-S.) ; M=Medium clouds (Ci-Cu,

MAY.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.							
1	..	..	*	..	..	*	..	..	..	7	7	2	1	0	0	2
2	..	..	NW	..	..	..	..	..	..	7	9	3	0	0	0	2
3	..	..	*	..	..	..	..	..	..	5	3	0	0	0	0	4
4	‡	†	..	..	..	†	..	..	..	1	2	0	1	0	0	0
5	..	..	NW	..	..	..	..	..	SW	7	6	1	0	0	0	2
6	..	..	N	..	..	..	..	..	W	6	8	0	0	1	4	4
7	..	..	SW	..	..	*	..	..	SSW	5	6	4	1	3	6	2
8	..	..	SSW	..	..	..	..	..	..	5	3	1	0	0	0	7
9	..	..	NW	..	..	NW	..	..	WNW	2	7	4	7	6	6	1
10	..	..	S	..	..	W	..	..	..	5	3	1	3	2	0	8
11	..	..	SW	..	..	*	..	..	W	7	6	1	1	0	6	1
12	..	..	SE	..	..	SW	..	..	W	2	2	1	4	2	3	8
13	..	..	†	..	..	NW	..	..	SW	2	2	1	7	2	4	3
14	..	..	N	..	..	*	..	..	N	1	5	2	1	3	1	2
15	..	..	N	..	..	..	..	..	..	5	1	4	0	0	0	6
16	..	..	NE	..	*	..	‡	..	..	6	6	2	1	2	4	3
17	..	SW	N	..	S	NW	‡	..	..	8	8	7	5	3	1	4
18	..	*	NW	..	..	*	..	..	*	3	4	2	1	5	1	4
19	..	..	§	..	..	W	..	..	W	5	6	8	5	2	3	5
20	..	..	§	..	*	..	..	..	NNW	8	10	8	1	0	1	4
21	..	§	§	..	S	..	..	*	..	6	8	4	1	2	1	2
22	..	..	SW	..	..	*	..	..	*	6	7	2	1	2	1	2
23	..	..	WSW	..	..	W	..	..	W	2	3	2	2	3	5	0
24	..	..	SW	..	..	SW	..	..	SW	2	3	4	2	5	4	2
25	..	..	..	..	..	WSW	..	..	WSW	3	2	2	2	4	2	0
26	..	..	SW	..	..	SW	..	..	SW	4	3	5	5	2	4	0
27	WNW	..	*	..	..	WSW	..	..	WSW	5	3	2	4	6	7	6
28	..	..	W	..	..	*	..	..	†	2	4	2	1	3	1	1
29	..	..	†	..	..	†	..	..	..	4	1	2	1	0	0	3
30	..	..	NNW	..	..	..	..	..	†	3	2	6	0	1	2	5
31	..	S	NNE	..	..	†	†	..	..	6	6	7	2	2	1	6
Mean cloud amount.										4·5	4·7	2·9	1·9	2·0	2·2	3·2

JULY.

1	..	..	SW	..	..	SW	..	..	SW	8	4	4	7	7	8	10
2	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
3	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	4
4	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
5	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
6	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	8
7	..	..	§	..	..	§	..	..	SW	10	10	10	10	9	10	7
8	..	..	§	..	..	§	..	..	SW	9	10	10	10	9	10	6
9	..	..	SW	..	..	SW	..	..	WSW	9	2	6	5	5	8	10
10	..	..	W	..	..	§	..	..	WSW	9	6	10	10	10	10	10
11	..	..	§	..	..	§	..	..	§	10	10	9	10	6	10	10
12	..	..	WSW	..	..	§	..	..	§	10	10	10	10	10	10	10
13	..	..	§	..	..	§	..	..	WSW	10	10	10	10	10	7	10
14	..	..	WSW	..	..	SSW	..	..	SW	8	8	8	8	7	9	3
15	..	..	SW	..	..	SW	..	E	W	5	7	5	6	8	7	9
16	..	..		..	..	§	..	..	§	8	6	4	10	9	8	10
17	..	..		..	..	W	..	..	§	10	9	10	10	10	10	8
18	..	..		..	..	§	..	..	W	10	10	10	10	10	10	3
19	..	..	§	..	..	W	..	..	§	10	9	10	8	8	9	3
20	..	..	W	..	..	§	..	..	§	10	6	9	10	10	10	10
21	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
22	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
23	..	..	§	..	..	W	..	..	W	10	10	10	9	8	10	10
24	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
25	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
26	..	..	§	..	..	§	..	..	WSW	10	10	10	10	10	10	10
27	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
28	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
29	..	..	WSW	..	..	§	..	..	§	10	10	10	10	10	10	9
30	..	..	SW	..	..	SW	..	..	§	10	8	8	5	10	10	7
31	..	..	§	..	..	§	..	..	§	10	10	10	10	10	9	10
Mean cloud amount.										9·5	8·9	9·1	9·3	9·2	9·5	8·6

..No cloud.
*At low angle.
† Scattered on the horizon.
‡Haze.
§Overcast.

A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N).

JUNE.

Cloud Forms (Coming from)									Cloud Amount (All Forms).							Date.
8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
H.	M.	L.	H.	M.	L.	H.	M.	L.								
‡	..	..	SE	..	..	..	..	§	7	2	3	4	1	8	1	1
..	..	§	..	*	..	†	..	..	10	10	5	2	1	1	7	2
..	..	SSW	..	..	†	..	..	SW	6	8	3	1	1	5	10	3
..	..	SE	..	..	SW	..	..	*	10	10	8	4	3	2	5	4
..	..	S	..	..	S	..	..	SSW	8	7	8	3	4	2	4	5
..	*	SW	..	..	SW	..	..	SW	8	3	6	3	4	5	5	6
..	..	SW	..	..	WSW	..	..	WSW	4	7	3	4	3	2	5	7
..	..	†	..	..	W	..	*	W	10	1	2	2	4	6	7	8
..	..	WSW	..	..	W	..	..	W	3	5	5	7	7	5	5	9
..	..	WSW	..	..	§	..	W	..	6	3	4	10	8	9	4	10
..	..	W	..	..	SW	..	*	WSW	6	4	5	7	9	9	10	11
..	..	SW	E	..	SW	*	..	SW	10	5	5	3	3	4	6	12
..	..	NNE	..	SE	..	..	..	§	10	6	6	4	4	9	10	13
..	..	§	..	..	§	..	..	§	8	10	10	10	10	10	10	14
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	15
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	16
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	17
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	18
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	7	19
..	*	SW	..	S	..	..	..	SW	6	5	7	8	5	8	4	20
..	..	§	..	..	§	..	..	W	10	10	5	10	10	7	3	21
..	..	WSW	..	..	SW	..	..	SW	10	8	9	6	5	8	3	22
..	SSW	*	..	..	SW	..	..	NE	10	6	6	10	9	8	2	23
..	..	*	..	SW	W	..	WSW	W	10	6	3	4	2	8	6	24
NE	..	*	..	..	SW	..	..	†	4	7	6	4	2	2	1	25
..	..	§	..	..	SW	..	..	WSW	5	8	4	5	4	7	4	26
..	NE	W	..	N	W	..	..	§	10	10	7	6	7	10	10	27
..	..	§	..	ENE	..	..	..	WSW	10	10	10	8	8	10	10	28
..	Calm	SW	..	..	§	..	..	§	10	6	7	10	10	10	10	29
..	..	SSW	..	..	SW	..	..	SW	4	3	2	3	6	7	10	30
									8·2	7·0	6·3	6·3	6·0	7·1	6·6	Mean cloud amount.

AUGUST.

..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	5	1
..	..	SW	..	..	SW	SW	..	*	6	7	8	9	4	8	4	2
..	WSW	SW	..	SW	..	..	..	SW	5	6	4	4	3	4	4	3
..	..	SW	..	..	§	..	..	SW	8	4	10	10	10	10	10	4
..	..	SW	..	..	§	..	..	§	10	10	10	10	10	10	10	5
..	..	SW	..	..	§	..	..	§	10	9	10	10	8	10	10	6
..	..	§	..	..	§	..	..	§	10	10	9	10	10	10	10	7
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	8
..	..	§	..	..	WSW	..	..	WSW	10	10	10	8	8	10	10	9
..	..	SW	..	..	SW	..	..	§	10	8	8	10	10	10	10	10
..	..	SW	..	..	SW	..	..	WSW	10	8	10	9	9	10	10	11
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10	12
..	..	§	..	..	§	..	..	§	10	10	7	10	10	10	8	13
..	..	SW	..	..	§	..	..	§	8	8	7	10	10	10	7	14
..	..	§	..	..	§	..	..	SW	6	10	10	10	8	8	7	15
..	..	§	..	..	SW	..	..	SW	8	10	10	9	8	4	10	16
..	..	WSW	..	..	WSW	..	..	WSW	9	10	10	8	6	9	2	17
..	..	WSW	..	..	§	..	..	SW	6	7	6	10	3	7	7	18
..	..	§	..	..	§	..	..	SW	10	10	9	10	8	10	10	19
..	..	SW	..	..	§	..	..	§	10	5	7	10	10	10	10	20
..	..	§	..	..	§	..	..	SW	10	10	7	10	7	8	8	21
..	SW	*	..	..	SW	..	..	§	9	6	5	7	8	9	9	22
..	..	WSW	..	..	§	..	..	WSW	10	9	10	10	9	9	6	23
..	SW	WSW	..	..	WSW	..	..	§	9	9	9	9	10	10	10	24
..	..	§	..	..	SW	..	..	SW	10	10	10	9	9	8	6	25
..	..	SW	..	SW	WSW	..	SW	WSW	10	7	7	5	6	4	0	26
..	..	SW	..	..	SW	..	..	§	6	5	5	7	8	10	0	27
..	WSW	WSW	..	..	§	..	..	WSW	6	6	6	10	5	5	8	28
..	*	SW	..	..	SW	..	..	§	8	10	5	6	9	10	10	29
..	..	SW	..	..	SW	..	..	WSW	8	7	7	7	5	8	10	30
..	..	SW	..	..	§	..	..	WSW	5	5	5	10	6	7	2	31
									8·6	8·3	8·1	8·9	8·0	8·6	7·5	Mean cloud amount.

..No cloud.
†Scattered on the horizon.
*At low angle.
§Overcast.
‡Haze.

Notation :—H=High clouds (Ci, Ci-S.); M=Medium clouds.

SEPTEMBER.

Day.	Cloud Forms (Coming from)									Cloud Amount (All Forms).						
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	14h.	16h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.							
1	..	..	§	..	..	SW	..	..	§	8	7	4	7	10	10	8
2	..	..	W	..	..	W	..	..	W	10	6	7	9	7	6	7
3	‡	..	*	..	..	W	..	..	*	8	6	5	5	7	6	6
4	..	..	SW	..	..	SW	..	..	SW	10	8	7	6	4	7	10
5	..	W	*	..	..	W	..	..	W	6	8	7	3	5	4	3
6	..	W	WSW	..	..	§	..	..	WSW	5	5	5	10	10	8	5
7	..	..	§	..	..	SW	..	..	WSW	8	9	7	5	8	5	9
8	..	..	SW	..	..	SW	..	..	SW	9	5	10	8	5	8	4
9	..	..	*	..	..	*	..	..	*	2	9	7	1	1	2	1
10	..	WSW	S	..	..	*	..	..	*	4	8	5	1	3	2	3
11	..	..	§	..	..	WNW	..	..	§	4	5	7	7	5	9	9
12	..	..	NE	..	ESE	..	..	ESE	..	9	6	8	4	7	8	10
13	..	..	§	..	calm	..	†	..	..	10	9	8	4	2	1	9
14	..	calm	*	..	..	W	..	..	§	10	8	4	7	9	10	4
15	..	WNW	NW	†	..	*	..	..	WNW	8	6	6	1	5	2	5
16	..	..	*	..	..	*	..	..	NW	8	2	7	1	3	4	2
17	..	NE	N	..	..	N	..	NE	..	2	3	8	7	2	8	9
18	..	W	*	..	..	†	..	..	§	8	8	8	1	2	9	2
19	..	..	SE	..	..	S	..	..	§	8	4	8	6	9	10	9
20	..	..	§	..	..	§	..	..	§	10	10	10	10	9	8	8
21	..	..	SE	..	..	SE	..	..	S	8	7	6	9	4	6	3
22	..	calm	*	..	..	§	..	..	§	5	3	2	10	5	7	10
23	..	..	S	..	..	SW	..	..	§	10	7	10	5	10	8	9
24	..	..	§	..	..	S	NNE	..	W	10	10	10	8	7	5	3
25	..	..	W	..	..	§	..	..	NW	8	6	9	9	7	9	10
26	..	..	§	..	..	NW	..	..	§	10	10	9	7	5	8	7
27	..	..	SE	..	..	SW	..	..	NW	10	8	7	7	5	9	10
28	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
29	..	..	SE	..	..	SW	..	..	SW	10	7	8	4	2	4	7
30	..	SE	N	..	..	†	..	..	NW	10	7	6	2	5	7	10
Mean cloud amount.										7·9	6·9	7·2	5·8	5·8	6·7	6·7

NOVEMBER.

1	..	..	..	..	..	*	..	..	..	1	1	2	1	2	1	0
2	..	..	NNE	..	..	N	..	..	NNE	2	4	8	8	9	7	7
3	..	..	*	..	..	*	..	..	*	7	3	2	2	4	2	2
4	..	..	NNW	..	..	..	..	..	*	6	5	5	0	1	1	0
5	..	..	*	..	..	..	..	..	*	4	2	2	0	1	1	6
6	..	*	†	..	SSE	†	..	..	†	8	4	1	4	1	2	0
7	..	..	†	..	..	†	..	..	†	1	1	1	1	1	1	0
8	‡	..	..	..	SW	..	‡	..	*	5	3	3	2	4	2	1
9	..	..	NE	‡	..	NW	..	..	W	2	4	6	3	5	7	10
10	‡	*	..	..	§	..	..	..	§	4	8	9	10	10	10	10
11	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
12	..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	10
13	..	..	W	..	..	§	..	..	§	10	9	9	10	10	10	10
14	..	..	NE	‡	..	*	..	..	*	5	6	7	2	3	2	0
15	..	..	..	..	..	..	..	..	*	2	1	1	0	1	1	0
16	..	..	*	‡	..	*	..	..	..	2	2	4	2	1	0	0
17	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
20	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
21	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
22	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
23	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
24	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
25	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
26	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
27	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0
28	‡	..	..	‡	..	..	..	..	..	0	2	2	1	1	1	1
29	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	0
30	..	calm	*	..	SW	..	calm	SSW	..	4	4	4	1	3	4	3
Mean cloud amount.										2·8	2·6	2·9	2·3	2·6	2·4	2·3

..No cloud.
*At low angle.
†Scattered on the horizon.
‡Haze.
§Overcast.

(Ci-Cu, A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N).

OCTOBER.

Cloud Forms (coming from)									Cloud Amount (All Forms).							Date.
8½h.			12½h.			16½h.										
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	14h.	16h.	22h.	
..	..	SE	..	..	W	..	..	§	10	10	10	9	10	10	10	1
..	..	§	..	..	§	..	..	§	10	10	10	10	10	10	1	2
..	..	NW	..	..	NW	..	..	WNW	8	4	4	6	8	6	4	3
..	..	§	..	..	W	..	..	NW	10	9	10	9	5	7	3	4
..	..	*	..	SW	W	..	..	*	4	2	3	5	4	2	5	5
..	SSW	NW	..	..	§	..	..	§	8	8	5	10	10	10	9	6
..	..	S	..	NE	*	..	..	WSW	1	2	5	3	8	3	4	7
..	..	*	..	..	SW	..	SW	*	6	3	4	4	7	8	4	8
..	..	SSE	..	..	SW	..	..	SW	4	4	8	5	4	5	4	9
..	..	§	..	..	W	..	..	SW	8	6	9	9	8	3	4	10
..	SE	..	..	..	§	..	Calm	*	7	8	5	10	8	6	9	11
..	..	*	..	..	NW	..	..	NW	6	2	4	3	5	1	0	12
..	..	*	..	..	NNW	..	..	*	2	0	8	2	1	1	0	13
..	..	NE	..	..	*	..	..	*	8	2	2	1	1	1	0	14
..	..	§	..	..	*	..	..	*	7	9	8	1	3	1	10	15
..	..	§	..	..	*	..	..	NW	8	8	8	1	6	7	6	16
..	..	ENE	..	..	NW	..	..	*	9	6	5	3	1	2	2	17
..	*	..	..	..	..	..	..	†	6	1	4	0	2	1	1	18
..	..	*	..	..	*	..	..	*	5	1	7	1	1	1	0	19
..	..	N	..	..	*	..	..	*	6	2	4	1	2	1	2	20
..	..	N	..	..	NW	..	*	..	6	4	5	5	4	3	1	21
..	..	*	..	..	..	..	..	..	7	2	1	0	2	1	0	22
..	NNE	*	..	..	*	..	..	..	2	2	1	1	1	0	2	23
..	..	*	..	..	..	..	WNW	..	1	1	2	0	1	4	0	24
..	*	..	..	..	..	..	..	..	1	1	0	0	0	0	0	25
..	..	..	..	..	..	..	..	..	1	0	0	0	1	2	5	26
..	..	*	..	..	*	..	..	*	2	1	3	1	1	1	0	27
..	..	*	..	..	*	..	..	..	1	1	1	1	1	1	1	28
..	..	NE	..	..	..	..	..	..	6	4	4	0	2	1	2	29
..	..	..	..	..	..	..	..	..	4	1	0	0	0	1	0	30
..	..	..	..	..	..	..	..	..		0	1	0	1	0	0	31
									5·4	3·7	4·5	3·3	3·8	3·2	2·9	Mean cloud amount.

DECEMBER.

*	..	..	Calm	..	NE	..	..	WSW	1	1	2	6	4	7	3	1
Calm	..	SW	WSW	§	..	Calm	..	NNW	2	8	6	7	8	9	4	2
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	3
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	4
SW	..	..	WSW	..	..	WSW	..	..	4	6	5	5	4	5	3	5
..	WSW	..	*	..	..	..	SW	..	7	5	4	3	2	5	3	6
..	SW	..	..	SW	..	..	SW	..	5	3	5	4	2	2	2	7
SSW	..	E	*	SW	W	..	..	§	3	8	8	8	8	8	6	8
..	..	§	..	WSW	E	SW	SW	*	8	10	8	6	5	6	4	9
..	SW	*	..	..	SW	S	SW	*	8	7	8	8	8	9	9	10
..	SSW	*	..	S	*	..	SW	W	4	6	5	5	5	6	4	11
..	..	*	..	..	..	..	..	..	2	1	1	0	1	1	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	13
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	14
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	15
..	..	..	..	..	..	..	..	*	0	0	0	0	1	1	0	16
..	..	..	..	..	..	..	SSW	*	0	0	0	0	1	4	2	17
..	..	S	..	SSW	*	..	..	S	7	4	6	4	2	8	4	18
..	..	SW	..	..	WSW	..	*	..	2	4	7	8	8	1	0	19
..	..	..	..	..	*	..	..	..	0	0	0	1	1	0	0	20
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	21
..	..	*	..	..	*	..	..	*	4	1	0	1	2	1	0	22
..	..	*	..	..	*	..	..	..	3	1	0	1	0	0	0	23
..	..	..	..	..	..	..	..	*	0	0	0	0	0	0	0	24
..	..	S	..	..	..	..	..	*	0	3	1	0	0	1	0	25
..	..	SSE	..	..	..	..	..	..	2	2	1	0	0	0	0	26
..	..	*	..	..	*	..	..	..	1	1	1	1	1	0	0	27
..	..	*	..	..	*	..	NW	..	0	1	1	2	1	1	0	28
*	..	..	‡	..	*	*	..	..	2	2	3	2	3	2	2	29
..	SW	*	..	..	SW	..	..	SW	2	3	4	8	7	8	7	30
..	SW	NW	SW	..	*	SW	..	*	5	6	5	6	4	6	7	31
									2·3	2·7	2·6	2·8	2·5	2·9	1·9	Mean cloud amounts.

..No cloud.
*At low angle.
†Scattered on the horizon.
‡Haze.
§Overcast.

Month	Hours.												Bright Sunshine.	
	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	15—16	16—17	17—18	Average per day.	Greatest number of hours in a day.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hrs.	hrs.
January	0·03	0·88	0·98	1·00	0·99	0·99	0·99	0·99	0·99	0·99	0·97	0·25	10·1	10·6
February	·03	·87	·97	0·99	1·00	1·00	·98	·96	·97	·95	·92	·56	10·2	10·9
March	·05	·85	·98	·98	·98	·99	1·00	1·00	1·00	·99	·97	·41	10·2	10·8
April	·37	·96	·99	1·00	1·00	1·00	1·00	1·00	1·00	·99	·98	·49	10·8	11·6
May	·53	·84	·91	0·92	0·96	0·97	1·00	1·00	1·00	1·00	·99	·52	10·6	11·8
June	·19	·48	·50	·67	·67	·65	0·66	0·62	0·55	0·46	·46	·12	6·0	10·6
July	·01	·11	·15	·17	·23	·21	·19	·18	·14	·09	·09	..	1·6	6·8
August	·01	·18	·27	·34	·37	·33	·27	·35	·40	24	·20	·05	3·0	8·8
September	·02	·38	·54	·57	·62	·74	·73	·72	·70	53	·43	·10	6·1	9·9
October	·17	·63	·73	·74	·79	·81	·83	·78	·78	·80	·78	·15	8·0	10·8
November	·37	·77	·86	·87	·84	·86	·85	·86	·83	·80	·73	·11	8·7	11·0
December	·14	·83	·93	·93	·95	·97	·95	·97	·94	·88	·74	·07	9·3	10·6
Mean	0·16	0·65	0·73	0·77	0·78	0·79	0·79	0·79	0·77	0·73	0·69	0·24	7·9	..

MAGNETIC TABLES.

(ALIBAG OBSERVATORY).

Diurnal variation of magnetic elements.

The following tables give the diurnal variation of declination (D), horizontal component of the force (H), the easterly component (Y), the vertical component (Z), the inclination (I) and the total force (F) for each month based on the hourly tabulations for the 5 international quiet days. Owing to very small value of D the variation tables of H and the northerly component of the force (X) are practically the same. No separate table for $\triangle$ X has consequently been given. The days are reckoned from 4 h. 51 m. to 3 h. 51 m. of the local mean time corresponding to the Greenwich civil day 0 h. to 23 h.

The variations in X, Y, I and F were computed from the variations in D, H and Z by means of the formulæ:

$$\triangle X = 1{\cdot}000\ \triangle H + \cdot006\ \triangle D.$$
$$\triangle Y = -0{\cdot}001\cdot\triangle H + 10{\cdot}800\ \triangle D.$$
$$\triangle I = 0{\cdot}076\ \triangle Z - 0{\cdot}036\ \triangle H.$$
$$\triangle F = 0{\cdot}903\ \triangle H + 0{\cdot}429\ \triangle Z.$$

A *plus* sign indicates an hourly value greater than the mean for the day.

Mean results are also given for groups of four months, as indicated by the Roman numerals at the head of the columns:—I January, February, November, December; II March, April, September, October; III May, June, July, August.

All diurnal inequalities have been corrected for the aperiodic change by the formula $\frac{N(12-n)}{24}$ where 'N' denotes the excess at the second mid-night of the representative day as compared to the first mid night, and 'n' denotes any hour of the day reckoned from 0 (first mid-night) to 24. The actual non-cyclic corrections applied, namely, $a_{24}-a_0$, in the different months of the year have been given under the respective columns of the tables for $\triangle$D, $\triangle$H and $\triangle$V.

The "allowance for the use of Means", which is given by $u_p = m_p + \frac{1}{12}\left(m_p - \frac{m_{p+1}+m_{p-1}}{2}\right)$, where u_p is the true ordinate and m_{p-1}, m_p, m_{p+1} the successive mean ordinates, is very small and less than 1γ in the case of H and V and 0·1 minute of arc in the case of D. Although small, the corrections have been used in determining the last significant figure in the following variation tables.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	−0·5	0·0	−0·3	+0·1	+0·4	+0·7	+0·5	+0·7	+0·4	0·0	−0·2	−0·3	−0·3	+0·1	+0·6	+0·1
1	**−0·6**	+0·1	−0·2	+0·7	+1·1	**+1·6**	+1·6	+1·6	+0·7	+0·1	−0·2	−0·4	−0·3	+0·3	+1·5	+0·5
2	−0·6	+0·6	+0·5	+2·0	+2·2	**+2·3**	**+2·4**	**+2·5**	+1·7	+0·7	−0·1	−0·3	−0·1	+1·2	**+2·3**	+1·1
3	+0·4	**+1·0**	+1·5	**+2·8**	**+2·6**	+2·1	+2·4	+2·2	**+2·0**	**+1·1**	+0·2	+0·2	+0·4	**+1·9**	+2·3	**+1·5**
4	**+1·7**	+0·9	**+2·1**	+2·6	+1·5	+1·4	+1·5	+1·1	+1·4	+0·7	**+0·6**	**+0·5**	**+0·9**	+1·7	+1·4	+1·3
5	+1·7	+0·1	+1·5	+0·4	+0·1	−0·1	+0·6	−0·5	+0·3	−0·1	+0·4	+0·3	+0·7	+0·5	0·0	+0·4
6	+0·6	−0·8	**+0·5**	−1·0	−1·6	−1·5	−1·4	−1·9	−1·3	−1·1	−0·1	−0·4	−0·2	−0·7	−1·6	−0·8
7	−0·4	**−1·5**	−0·7	−2·5	**−2·6**	−2·4	−2·4	**−2·9**	−2·7	**−1·5**	**−0·4**	**−0·6**	**−0·7**	−1·9	**−2·6**	**−1·7**
8	−0·2	−1·4	**−1·6**	**−2·9**	−2·4	**−2·6**	**−2·7**	−2·8	**−2·8**	−1·4	−0·2	−0·1	−0·5	**−2·2**	−2·6	**−1·8**
9	−0·1	−0·7	−1·4	−2·2	−1·5	−2·0	−2·1	−2·0	−1·9	−0·8	0·0	+0·2	−0·2	−1·6	−1·9	−1·2
10	+0·1	+0·3	−0·8	−1·1	−0·6	−1·1	−1·1	−0·9	−0·8	−0·3	0·0	+0·2	+0·1	−0·7	−0·9	−0·5
11	+0·5	+0·8	−0·2	0·0	+0·1	−0·2	+0·1	+0·3	+0·4	+0·2	+0·1	+0·3	+0·4	+0·1	+0·1	+0·2
12	+0·3	+0·5	+0·3	+0·4	+0·3	+0·1	+0·7	+0·8	+0·6	+0·1	−0·1	0·0	+0·2	+0·4	+0·5	+0·3
13	−0·1	−0·1	−0·2	+0·3	+0·2	+0·2	+0·6	+0·6	+0·2	0·0	−0·2	−0·1	−0·1	+0·1	+0·4	+0·1
14	−0·1	−0·1	−0·2	−0·1	−0·3	−0·1	+0·1	−0·1	+0·1	+0·1	0·0	+0·1	0·0	0·0	−0·1	0·0
15	−0·1	+0·1	−0·2	−0·2	−0·5	−0·2	−0·2	−0·2	0·0	+0·1	0·0	+0·1	0·0	−0·1	−0·3	−0·1
16	−0·1	−0·1	−0·3	−0·2	−0·2	−0·1	−0·3	−0·1	−0·1	+0·1	0·0	+0·1	0·0	−0·1	−0·2	−0·1
17	−0·3	−0·1	−0·3	0·0	−0·1	0·0	−0·2	0·0	0·0	+0·2	−0·1	+0·1	−0·1	0·0	−0·1	−0·1
18	−0·3	0·0	−0·2	0·0	0·0	+0·1	−0·2	0·0	+0·1	+0·3	−0·1	+0·1	−0·1	+0·1	0·0	0·0
19	−0·2	0·0	−0·1	+0·1	+0·2	+0·2	−0·1	+0·1	+0·2	+0·4	+0·2	+0·1	0·0	+0·2	+0·1	+0·1
20	−0·2	+0·1	+0·1	+0·2	+0·3	+0·3	−0·1	+0·2	+0·3	+0·4	+0·1	0·0	0·0	+0·3	+0·2	+0·1
21	−0·3	+0·1	+0·4	+0·3	+0·3	+0·4	+0·1	+0·3	+0·4	+0·4	+0·2	−0·1	0·0	+0·3	+0·3	+0·2
22	−0·2	+0·1	0·0	+0·2	+0·2	+0·3	+0·1	+0·3	+0·4	+0·3	0·0	−0·1	−0·1	+0·2	+0·3	+0·1
23	−0·4	+0·1	−0·2	+0·1	+0·2	+0·4	+0·3	+0·5	+0·4	+0·2	−0·1	−0·1	−0·1	+0·1	+0·3	+0·1
Non-cyclic change (24h—oh.)	−0·19	−0·11	0·00	+0·01	+0·05	−0·13	−0.02	+0·01	−0·06	−0·08	−0·20	−0·27				

DIURNAL VARIATION OF H, 1927.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−8	−13	−17	**−21**	−15	−13	−10	−11	−12	−12	**−10**	−7	−9	−15	−12	−12
1	−6	−10	−15	−19	−11	−11	−8	−10	−12	−9	−8	−5	−7	−14	−10	−10
2	0	−5	−6	−14	−4	−5	−4	−7	−14	−5	−2	−3	−2	−9	−5	−6
3	+6	+6	+11	−1	+9	+6	+5	+1	−6	+4	+7	+1	+5	+2	+5	+4
4	+13	+20	+28	+19	+23	+17	+16	+13	+7	+16	+17	+8	+14	+18	+17	+16
5	+26	+30	+44	+41	+33	+28	+25	+27	+25	+27	+26	+15	+24	+34	+28	+29
6	**+33**	**+36**	**+48**	+53	+38	**+33**	+29	**+31**	+35	**+36**	**+33**	+22	**+31**	+43	**+33**	**+36**
7	+29	+35	+43	**+57**	**+39**	+30	**+30**	+31	**+40**	+35	+30	**+23**	+29	**+44**	+32	+35
8	+23	+26	+34	+49	+34	+27	+26	+26	+36	+26	+22	+17	+22	+36	+28	+29
9	+14	+15	+21	+34	+24	+21	+19	+17	+28	+16	+14	+7	+12	+25	+20	+19
10	+5	+6	+8	+18	+11	+11	+5	+10	+17	+7	+5	+2	+5	+13	+9	+9
11	−2	−1	0	+3	−1	+2	−5	+1	+4	0	−2	−1	−1	+2	−1	0
12	−7	−4	−6	−9	−8	−6	−10	−6	−4	−6	−7	−3	−6	−6	−7	−7
13	−9	−7	−11	−14	−12	−11	−11	−11	−8	−7	−7	−5	−7	−10	−11	−10
14	−11	−9	−16	−17	−14	−13	−11	−11	−10	−9	−9	−6	−9	−13	−13	−11
15	−13	−12	−20	−19	−15	−14	**−12**	**−12**	−13	−12	−12	−8	−11	−16	−13	−13
16	**−14**	−14	**−22**	−20	**−16**	**−15**	−12	−12	**−15**	−14	**−14**	**−9**	**−13**	**−18**	**−14**	**−15**
17	−14	−14	−19	−20	**−17**	−14	−12	−11	−15	**−16**	−13	−8	−12	−18	−13	−14
18	−14	−13	−18	−20	−17	−13	−10	−11	−14	−14	−13	−7	−12	−17	−13	−14
19	−11	−14	−18	−20	−17	−13	−9	−11	−13	−13	−12	−7	−11	−16	−13	−13
20	−10	**−15**	−19	−20	−16	−12	−9	−11	−13	−13	−11	−7	−10	−16	−12	−13
21	−9	−14	−17	−20	−17	−12	−10	−11	−13	−13	−12	−5	−10	−16	−12	−13
22	−10	−13	−16	−20	−16	−11	−11	−11	−14	−12	−11	−6	−10	−15	−12	−13
23	−10	−13	−15	−20	−15	−12	−10	−11	−13	−11	−11	−8	−11	−15	−12	−13
Non-cyclic change (24h—oh.)	+11·1	+8·3	+3·4	+7·3	+4·2	+4·5	+3·9	+5·7	+0·6	+8·6	+4·0	+7·0				

DIURNAL VARIATION OF Y, 1927.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	**−6**	0	−3	+1	+4	+8	+6	+8	+4	0	−2	−3	−3	+1	+6	+1
1	−6	+1	−2	+7	+12	+17	+17	+17	+7	+1	−2	−4	−3	+3	+16	+5
2	−7	+6	+6	+22	+23	**+25**	**+26**	**+27**	+18	+8	−2	−4	−1	+13	+25	+12
3	+2	**+11**	+17	**+30**	**+28**	+23	+25	+24	**+22**	**+11**	+3	+3	+5	**+20**	+25	**+17**
4	**+19**	+9	**+22**	+28	+17	+15	+16	+11	+15	+8	**+6**	**+6**	**+10**	+18	+15	+14
5	+19	+1	+17	+5	+1	−1	+7	−5	+3	−2	+5	+3	+7	+6	0	+4
6	+6	−9	+5	−11	−17	−16	−15	−21	−13	−12	−1	−5	−2	−8	−17	−9
7	−4	**−17**	−7	−27	**−28**	−26	−26	**−31**	−29	**−17**	**−4**	**−6**	**−8**	−20	**−28**	**−19**
8	−3	−15	**−17**	**−31**	−26	**−29**	**−29**	**−31**	**−30**	−15	−2	−1	−5	**−23**	−28	−19
9	−1	−7	−15	−23	−16	−21	−23	−21	−21	−9	0	+2	−2	−17	−21	−13
10	+1	+3	−8	−12	−6	−12	−11	−19	−9	−3	0	+2	+1	−8	−10	−5
11	**+5**	**+8**	−2	0	+1	−3	+1	+3	+4	+3	+1	+3	+5	+1	+1	**+2**
12	+3	+5	+3	+4	+4	+1	+7	+9	+7	+1	−1	0	+2	+4	+5	+4
13	−1	−1	−2	+3	+2	+2	+6	+7	+2	0	−2	−1	−1	+1	+4	+1
14	−2	−1	−2	−1	−4	−1	+1	−1	+1	+1	0	+1	0	0	−1	−1
15	−1	+1	−2	−2	−5	−2	−3	−2	0	+1	0	+1	0	−1	−3	−1
16	−1	−1	−3	−2	−3	−1	−3	−1	−1	+1	0	+1	0	−1	−2	−1
17	−3	−1	−3	0	−1	0	−3	0	0	+2	−1	+1	−1	0	−1	−1
18	−3	0	−2	0	0	+1	−2	0	+1	+3	−2	+1	−1	+1	0	0
19	−2	0	−1	+1	+2	+3	−2	+1	+2	+4	+2	+1	0	+2	+1	+1
20	−2	+1	+1	+2	+4	+4	−1	+2	+3	+5	+1	0	0	+3	+2	+2
21	−3	+1	+1	+3	+4	+4	+1	+3	+4	+4	+2	−1	0	+3	+3	+2
22	−4	+1	0	+3	+3	+4	+1	+4	+4	+3	0	−1	−1	+2	+3	+1
23	−5	+1	−3	+1	+2	+4	+3	+5	+4	+2	−1	−1	−2	+1	+3	+1

[INTERNATIONAL QUIET DAYS,* GREENWICH MEAN TIME.]

Hours.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	+5	+5	+4	+7	+9	+7	+6	+5	+6	+3	+6	+1	+4	+5	+7	+5
1	+5	+8	+6	+15	+15	+10	+12	+12	+11	+7	+7	+1	+5	+9	+11	+9
2	+6	+10	+11	+17	+15	+7	+10	+12	+13	+9	+7	+1	+6	+13	+11	+10
3	+12	+5	+10	+9	+8	−1	+2	0	+4	+2	+7	+5	+7	+6	+2	+5
4	+10	−6	+2	−6	−6	−10	−5	−16	−9	−10	+1	+3	+2	−6	−9	−5
5	−10	−17	−7	−23	−21	−17	−14	−23	−24	−19	−6	−6	−10	−18	−19	−16
6	−22	−24	−17	−30	−23	−23	−20	−25	−31	−21	−9	−12	−17	−25	−23	−21
7	−17	−20	−19	−28	−18	−17	−17	−15	−29	−9	−5	−6	−12	−21	−17	−17
8	−10	−9	−13	−15	−7	−7	−10	−4	−15	−4	−2	−2	−6	−12	−7	−8
9	−5	+1	−4	−2	0	+1	−1	+6	+3	+2	−1	−2	−2	0	+1	0
10	+1	+6	+2	+5	+5	+8	+7	+13	+9	+3	−3	0	+1	+5	+8	+5
11	+4	+4	0	+7	+5	+9	+11	+14	+11	+2	−3	0	+1	+5	+10	+5
12	0	0	−2	+3	+2	+6	+9	+11	+5	−3	−5	−2	+2	+1	+7	+2
13	−2	−4	−3	−3	−2	+3	+3	+3	0	−2	−3	0	+2	−2	+2	−1
14	0	+1	0	−2	−3	0	−3	−3	+1	+1	0	+3	+1	0	−2	0
15	0	+2	0	0	−1	+1	−2	−1	+2	+1	−1	+3	+1	+1	−1	0
16	+1	+2	0	+2	+2	+3	−1	0	+3	+2	−1	+2	+1	+2	+1	+1
17	+1	+3	+3	+5	+3	+3	+1	+2	+4	+4	0	+3	+2	+4	+2	+3
18	+3	+5	+5	+5	+1	+3	+1	+2	+6	+6	+2	+3	+3	+5	+2	+3
19	+3	+6	+5	+6	+4	+3	+2	+2	+6	+6	+2	+3	+4	+6	+3	+4
20	+4	+5	+5	+7	+4	+3	+2	+1	+7	+6	+2	+2	+3	+6	+3	+4
21	+3	+6	+5	+7	+3	+2	+2	+1	+7	+5	+2	−1	+2	+6	+2	+3
22	+3	+6	+4	+6	+3	+2	+2	+1	+7	+5	+2	+1	+3	+5	+2	+3
23	+3	+7	+4	+7	+3	+2	+3	+1	+7	+5	+2	+1	+3	+5	+2	+3
Noncyclic change (24h—oh.)	+1·5	+2·3	+0·2	−2·5	+1·0	+6·4	+0·9	+11·8	+0·9	−3·4	−2·1	+4·6				

DIURNAL VARIATION OF I, 1927.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·7	+0·9	+0·9	+1·4	+1·2	+1·0	+0·8	+0·8	+0·9	+0·7	+0·9	+0·2	+0·7	+1·0	+0·9	+0·9
1	+0·6	+1·0	+1·0	+1·8	+1·5	+1·2	+1·2	+1·3	+1·2	+0·8	+0·8	+0·3	+0·7	+1·2	+1·3	+1·1
2	+0·5	+0·9	+1·0	+1·8	+1·4	+0·8	+0·8	+1·1	+1·5	+0·9	+0·7	+0·2	+0·6	+1·3	+1·0	+1·0
3	+0·7	+0·2	+0·3	+0·7	+0·3	−0·3	−0·1	0·0	+0·5	−0·1	+0·2	+0·4	+0·4	+0·3	0·0	+0·2
4	+0·3	−1·1	−0·8	−1·2	−1·3	−1·3	−1·0	−1·7	−1·0	−1·4	−0·6	−0·1	−0·4	−1·1	−1·3	−0·9
5	−1·6	−2·4	−2·2	−3·2	−2·8	−2·3	−2·0	−2·8	−2·7	−2·4	−1·4	−1·1	−1·6	−2·6	−2·5	−2·2
6	−2·8	−3·1	−3·0	−4·2	−3·2	−2·9	−2·5	−3·0	−3·5	−2·9	−1·9	−1·7	−2·4	−3·4	−2·9	−2·9
7	−2·4	−2·7	−2·9	−4·2	−2·8	−2·4	−2·4	−2·3	−3·6	−2·0	−1·5	−1·3	−2·0	−3·2	−2·5	−2·5
8	−1·6	−1·6	−2·2	−2·9	−1·7	−1·6	−1·7	−1·2	−2·4	−1·2	−1·0	−0·7	−1·2	−2·2	−1·5	−1·7
9	−0·9	−0·5	−1·1	−1·3	−0·9	−0·7	−0·8	−0·1	−0·8	−0·5	−0·6	−0·3	−0·6	−0·9	−0·6	−0·7
10	−0·1	+0·2	−0·1	−0·3	0·0	+0·2	+0·3	+0·6	+0·1	0·0	−0·4	−0·1	−0·1	−0·1	+0·3	0·0
11	+0·4	+0·3	0·0	+0·4	+0·4	+0·6	+1·0	+1·1	+0·7	+0·2	−0·1	0·0	+0·1	+0·3	+0·8	+0·4
12	+0·3	+0·1	0·0	+0·5	+0·4	+0·7	+1·0	+1·1	+0·5	0·0	−0·1	−0·1	+0·1	+0·3	+0·8	+0·4
13	+0·2	0·0	+0·2	+0·3	+0·2	+0·7	+0·6	+0·6	+0·3	+0·2	+0·1	+0·2	+0·1	+0·3	+0·5	+0·3
14	+0·4	+0·3	+0·6	+0·4	+0·3	+0·5	+0·2	+0·2	+0·5	+0·3	+0·3	+0·4	+0·3	+0·5	+0·3	+0·4
15	+0·5	+0·5	+0·7	+0·7	+0·4	+0·6	+0·3	+0·3	+0·6	+0·5	+0·4	+0·5	+0·5	+0·6	+0·4	+0·5
16	+0·5	+0·6	+0·8	+0·9	+0·7	+0·7	+0·4	+0·4	+0·8	+0·6	+0·4	+0·5	+0·5	+0·8	+0·5	+0·6
17	+0·6	+0·7	+0·9	+1·0	+0·8	+0·7	+0·5	+0·5	+0·9	+0·9	+0·5	+0·5	+0·6	+0·9	+0·6	+0·7
18	+0·7	+0·9	+1·1	+1·1	+0·7	+0·7	+0·5	+0·6	+0·9	+0·9	+0·7	+0·5	+0·7	+1·0	+0·6	+0·8
19	+0·7	+0·9	+1·0	+1·2	+0·9	+0·7	+0·5	+0·5	+1·0	+0·9	+0·6	+0·5	+0·7	+1·0	+0·7	+0·8
20	+0·6	+0·9	+1·1	+1·2	+0·9	+0·6	+0·5	+0·5	+1·0	+0·9	+0·5	+0·3	+0·6	+1·1	+0·6	+0·7
21	+0·5	+0·9	+1·0	+1·2	+0·8	+0·6	+0·5	+0·5	+1·0	+0·9	+0·5	+0·1	+0·5	+1·0	+0·6	+0·7
22	+0·6	+1·0	+0·9	+1·1	+0·8	+0·5	+0·6	+0·5	+1·0	+0·8	+0·5	+0·3	+0·6	+0·9	+0·6	+0·7
23	+0·6	+1·0	+0·9	+1·2	+0·7	+0·6	+0·6	+0·5	+1·0	+0·8	+0·5	+0·4	+0·6	+1·0	+0·6	+0·7

DIURNAL VARIATION OF F, 1927.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−5	−9	−14	−16	−9	−8	−6	−7	−8	−9	−7	−6	−7	−12	−8	−9
1	−3	−6	−11	−11	−4	−5	−2	−4	−7	−6	−5	−4	−4	−9	−4	−5
2	+3	−1	−1	−5	+3	−2	+1	−1	−7	0	+1	−2	+1	−3	0	−1
3	+11	+8	+14	+3	+12	+5	+6	+1	−4	+5	+10	+3	+8	+4	+6	+6
4	+16	+15	+26	+15	+18	+11	+12	+5	+3	+10	+16	+8	+14	+13	+11	+13
5	+19	+19	+36	+27	+21	+18	+16	+15	+12	+17	+21	+11	+18	+23	+17	+19
6	+21	+22	+36	+35	+25	+20	+17	+17	+18	+24	+26	+15	+21	+28	+20	+23
7	+19	+23	+31	+40	+27	+20	+19	+22	+23	+27	+24	+18	+21	+30	+22	+24
8	+17	+19	+25	+38	+27	+21	+20	+22	+26	+22	+19	+14	+17	+28	+23	+23
9	+11	+14	+17	+29	+21	+19	+16	+18	+26	+15	+12	+5	+10	+22	+19	+17
10	+5	+8	+8	+19	+12	+13	+7	+14	+19	+8	+3	+2	+5	+13	+12	+10
11	0	+1	0	+6	+2	+6	0	+7	+8	+1	−3	0	−1	+4	+4	+2
12	−7	−4	−6	−7	−6	−3	−6	0	−2	−7	−9	−4	−6	−5	−4	−5
13	−9	−8	−11	−14	−12	−8	−9	−9	−8	−7	−8	−4	−7	−10	−9	−9
14	−10	−8	−15	−16	−14	−12	−11	−11	−9	−8	−8	−5	−7	−12	−12	−11
15	−12	−10	−18	−17	−14	−12	−11	−11	−11	−11	−11	−6	−10	−14	−12	−12
16	−13	−12	−19	−17	−14	−13	−11	−11	−13	−12	−13	−7	−11	−15	−12	−13
17	−12	−11	−16	−17	−14	−11	−10	−10	−12	−13	−12	−6	−10	−14	−11	−12
18	−11	−10	−14	−16	−15	−11	−9	−9	−10	−10	−10	−5	−9	−13	−11	−11
19	−9	−10	−14	−15	−14	−11	−7	−9	−9	−9	−10	−5	−9	−12	−10	−10
20	−7	−11	−15	−15	−13	−10	−7	−10	−9	−10	−9	−5	−8	−12	−10	−10
21	−7	−11	−13	−15	−14	−10	−8	−9	−9	−9	−10	−5	−8	−12	−10	−10
22	−8	−9	−13	−16	−13	−9	−9	−9	−10	−9	−10	−5	−8	−12	−10	−10
23	−8	−9	−12	−15	−12	−10	−8	−9	−9	−8	−9	−7	−8	−11	−10	−10

* V. F. magnetograph was under adjustment on the 7th and 13th August which are international quiet days. Curves for two locally selected quiet days, namely, the 8th and 17th, were used instead of those for the 7th and 13th for the calculation of ΔZ for this month.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIE S.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	0·9	0·8	1·1	1·0	0·4	0·1	0·5	0·7	0·7	1·1	1·4	1·7	1·5	0·9	0·9
2	0·6	1·1	1·9	1·5	0·3	+1·0	+1·0	+0·8	+0·8	+0·4	0·1	0·4	0·6	0·6	0·5
3	1·1	1·2	1·7	1·6	0·2	+0·4	0·3	1·4	1·5	1·1	0·6	0·4	0·5	0·7	0·7
4	1·4	1·5	1·8	1·7	0·6	+0·5	+0·7	0·2	0·5	0·1	0·7	1·2	0·9	0·8	0·5
5	1·0	1·2	2·0	2·2	1·2	0·2	+0·3	+0·8	+0·7	+0·1	0·6	0·8	0·7	0·3	0·4
6	0·9	1·1	1·7	2·0	1·5	1·6	2·1	2·1	1·2	0·2	0·0	+0·3	+0·2	0·5	0·4
7	1·2	1·3	1·5	1·5	1·0	0·9	0·7	0·5	+0·5	+1·2	+0·4	+0·9	+1·1	+0·3	+0·1
8	1·3	1·2	1·6	1·8	1·8	1·3	1·4	1·5	1·0	0·3	+0·2	0·1	0·9	1·1	0·8
9†	1·1	1·2	1·0	0·3	+0·3	0·6	0·7	1·1	1·0	1·2	1·5	1·4	1·5	1·7	1·4
10†	1·4	1·3	1·5	0·4	+1·8	+2·3	0·7	1·4	1·2	1·4	1·1	0·3	0·6	1·1	1·1
11	2·0	1·7	1·7	1·5	+0·3	+0·7	0·7	1·9	1·3	1·1	1·3	1·2	1·4	1·7	1·4
12	1·4	1·4	1·8	0·7	+1·7	+1·8	2·0	3·1	2·2	1·7	1·8	1·2	1·0	1·3	1·2
13	1·1	1·5	2·1	2·3	0·9	0·2	1·4	2·4	1·3	1·0	0·9	1·0	0·8	1·2	1·2
14	1·6	1·8	1·7	0·9	+0·8	+1·6	+0·7	0·6	0·8	1·2	1·6	1·4	1·2	1·2	1·2
15	1·8	2·2	2·3	1·3	+0·2	+1·1	+1·1	+0·4	0·4	1·0	1·8	1·6	1·5	1·7	1·2
16	2·0	2·3	2·3	1·1	+1·2	+2·9	+2·1	+0·1	1·0	0·3	0·7	1·2	1·4	1·5	1·1
17	1·9	2·2	2·6	1·9	+0·4	+2·0	+1·1	+0·3	0·0	0·5	0·4	0·5	0·7	0·9	0·6
18	2·2	2·4	2·7	1·9	0 2	+0·8	0·2	0·9	+0·2	+0·7	+0·4	0·3	1·0	1·0	0·4
19	1·5	1·8	2·4	1·8	0·5	0·0	2·1	2·3	1·0	0·9	1·1	1·4	1·1	1·3	1·2
20	1·4	1·5	1·7	1·1	+0·6	+1·5	+0·6	+0·1	0·3	1·0	1·1	1·0	1·0	1·2	0·9
21†	1·7	1·9	1·7	0·7	+0·9	+0·8	0·2	1·2	1·2	0·9	0·7	0·2	0·7	1·3	1·3
22†	1·7	1·9	2·1	1·7	0·4	+0·7	0·1	1·1	1·0	0·7	0·6	0·5	0·6	0·9	1·2
23†	1·8	1·8	1·9	1·1	+0·5	+0·2	1·0	2·2	2·2	1·7	1·2	0·7	0·7	1·1	1·3
24	1·9	1·9	2·1	1·2	+0·2	+0·3	+1·1	1·9	2·6	2·8	2·4	1·4	0·9	1·1	1·2
25	2·5	3·0	3·2	2·7	1·3	1·0	0·2	2·9	2·3	2·4	2·1	1·3	0·7	0·5	0·8
26	1·2	1·3	2·2	1·8	+0·6	+1·4	0·3	2·0	3·2	3·0	2·3	1·3	0·9	0·9	1·0
27	1·5	1·7	1·8	1·8	0·9	0·5	1·2	2·0	2·2	1·8	1·5	0·9	0·7	0·8	0·9
28	1·7	1·7	1·4	0·5	+0·3	+1·3	+1·0	1·0	1·7	1·2	0·7	0·2	0·3	1·0	1·0
29	1·2	1·4	1·9	1·8	0·3	+0·7	0·1	2·7	2·6	1·7	1·1	0·8	1·2	1·4	1·2
30	1·9	2·1	1·9	1·3	+0·3	+0·6	0·7	2·3	1·1	+0·4	+0·7	0·4	1·5	1·7	1·3
31	1·6	1·8	1·9	0·7	+0·3	1·3	1·4	1·0	0·1	0·2	0·7	0·9	1·4	1·8	1·7
Mean . .	1·5	1·7	1·9	1·4	0·0	+0·5	0·3	1·2	1·1	0·9	0·9	0·8	0·9	1·1	1·0
Mean† . .	1·5	1·6	1·6	0·8	+0·6	+0·7	0·5	1·4	1·3	1·2	1·0	0·6	0·8	1·2	1·3

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1	1·8	2·1	2·2	1·8	0·3	0·6	1·3	1·4	0·7	0·0	+0·3	0·3	0·8	1·8	1·7
2	1·3	1·9	2·0	1·4	0·1	0·5	2·4	3·3	2·2	2·4	+0·6	+0·2	1·0	1·9	1·8
3	1·5	1·9	1·9	1·7	0·8	0·3	0·9	1·2	0·5	0·1	0·0	0·5	1·0	1·9	1·8
4	0·9	1·2	1·1	0·9	0·4	1·4	2·4	2·8	1·8	0·1	+0·8	+0·6	0·5	1·6	1·6
5	1·2	1·5	2·0	1·9	1·5	1·9	2·8	2·7	0·9	+0·8	+1·2	+1·2	+0·3	1·2	1·4
6†	1·0	0·9	1·3	1·0	0·6	0·9	1·9	3·7	3·3	2·1	0·5	+0·5	+0·3	1·0	1·4
7†	1·2	1·0	0·4	0·5	1·7	2·9	3·5	3·7	2·9	1·7	0·5	+0·1	0·3	1·2	1·3
8	1·1	1·0	0·8	0·2	0·0	0·8	1·0	2·4	3·2	2·8	2·1	0·9	0·5	0·9	1·3
9	0·9	0·9	0·3	+0·4	+0·4	0·4	2·2	3·8	3·4	2·5	1·6	1·3	0·9	1·1	0·9
10	0·3	0·0	0·5	+0·3	+0·6	+0·3	0·5	1·9	1·7	1·1	0·3	0·0	0·3	0·4	0·7
11	1·3	1·1	0·8	0·0	+0·7	+0·7	0·1	0·9	0·7	+0·6	+0·7	0·0	0·5	0·9	0·8
12	0·4	0·6	1·0	0·8	0·9	1·8	2·8	2·7	1·6	0·9	1·1	1·3	1·6	1·4	1·1
13	1·5	1·7	1·5	1·1	0·7	0·6	0·7	1·2	1·0	0·0	+0·3	+0·1	0·5	1·5	0·9
14	1·5	1·7	2·0	1·2	0·9	1·0	1·1	1·2	0·6	+0·1	+0·6	+0·9	0·7	1·9	1·6
15	1·3	1·4	1·1	0·3	+0·2	0·3	0·8	0·6	0·3	+0·2	+0·2	0·0	0·7	1·7	1·4
16	1·9	1·9	1·8	1·1	0·6	0·8	1·4	1·7	1·3	0·6	+0·1	0·1	0·8	1·2	0·4
17	1·3	1·3	1·0	0·8	1·2	1·9	2·7	2·8	2·2	0·9	0·2	0·2	0·8	0·9	0·8
18	0·8	0·8	0·3	0·0	0·0	1·1	2·2	2·7	2·4	1·3	0·3	+0·4	0·3	1·3	0·6
19	1·3	1·1	0·7	0·3	0·3	0·8	1·7	2·7	2·7	1·0	0·4	+0·1	0·3	1·0	0·7
20	1·1	1·1	0·6	0·3	0·3	1·7	2·7	3·2	2·8	2·1	1·1	0·3	0·3	0·8	1·1
21†	1·1	1·0	0·1	+0·2	0·3	1·3	2·2	2·7	2·6	1·8	1·1	0·9	1·0	1·3	1·2
22†	1·2	1·2	0·8	+0·2	+0·7	+0·2	0·9	1·4	1·7	1·8	1·7	1·6	1·8	1·7	1·2
23†	1·4	1·1	0·5	+0·2	+0·2	0·7	1·6	2·3	2·4	2·1	1·3	0·9	1·2	1·5	1·5
24	1·5	1·3	0·9	0·6	0·5	1·3	1·7	2·2	1·7	1·3	0·4	0·0	0·6	1·1	1·4
25	0·4	0·7	0·0	+0·1	0·1	1·4	2·8	3·0	2·6	2·0	1·5	0·5	0·2	0·7	1·0
26	0·3	+0·3	+1·0	+1·7	+0·8	0·6	1·3	2·0	2·4	2·2	1·6	1·0	0·9	1·4	1·3
27	1·3	0·9	0·1	+0·5	+0·3	0·6	1·3	2·2	2·4	2·1	1·5	1·3	1·5	1·3	0·9
28	0·9	0·7	0·0	+0·4	+0·4	0·3	1·4	2·1	2·1	1·7	1·3	1·3	1·5	1·5	1·1
Mean . .	1·1	1·1	0·9	0·4	0·3	0·9	1·7	2·3	1·9	1·2	0·5	0·3	0·7	1·3	1·2
Mean† . .	1·2	1·1	0·6	0·2	0·4	1·1	2·0	2·7	2·6	1·9	1·0	0·5	0·8	1·3	1·3

† Five international quiet days.

‡ The figures preceded by '+' sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
0·8	0·8	0·8	0·6	0·5	0·5	0·5	0·3	0·6	0·8	4 45	+0·1	11 23	2·3	1
+0·1	0·6	0·7	0·6	0·9	0·7	0·6	0·8	0·9	0·4	5 13	+1·1	2 27	2·3	2
0·6	0·6	0·7	0·7	0·7	0·7	0·6	0·8	1·2	0·8	4 48	+0·5	2 9	2·3	3
0·2	0·4	0·5	0·5	+0·4	0·2	+0·5	+0·7	0·3	0·5	21 47	+0·9	2 49	2·5	4
0·3	0·3	0·4	0·3	0·3	0·2	0·1	0·5	0·7	0·5	7 37	+0·9	2 43	2·6	5
0·1	0·6	0·6	0·7	0·6	0·7	0·8	0·9	1·2	0·9	11 49	+0·4	6 21	2·7	6
0·3	+0·1	+1·0	+1·2	+0·8	+1·5	+0·8	+0·1	0·7	**0·0**	19 31	+1·8	2 13	1·9	7
0·8	0·8	0·8	0·8	0·7	0·7	0·7	0·7	1·1	1·0	10 23	+0·3	3 5	2·1	8
1·4	1·3	1·5	1·3	1·3	1·3	1·1	1·3	1·3	1·1	4 5	+0·4	13 7	1·8	9†
1·1	1·1	1·4	1·5	1·3	1·3	1·5	1·8	1·7	0·9	4 37	+2·9	6 45	1·9	10†
1·2	1·4	1·0	0·6	0·4	0·7	0·7	0·8	1·1	1·1	4 29	+1·3	0 13	2·3	11
0·7	0·8	0·8	0·8	0·8	0·8	0·8	0·6	1·0	1·0	4 39	+2·6	6 43	**3·8**	12
0 7	1·2	1·2	1·1	1·2	1·2	1·1	1·3	1·5	**1·3**	4 55	+0·2	2 43	2·7	13
1·1	1·1	1·0	0·7	0·6	0·6	0·8	0·8	0·7	0·8	4 49	+1·7	0 45	1·9	14
0·7	0·8	1·1	1·1	1·1	1·4	1·3	1·7	0·7	1·0	5 45	+1·2	1 49	2·7	15
0·8	0·9	0·9	1·1	0·8	1·1	1·3	1·5	1·7	0·8	4 43	**+3·0**	1 37	2·6	16
0·7	0·7	0·6	0·6	0·5	0·7	1·0	1·5	1·9	0·7	4 56	+2·1	2 7	2·7	17
0·5	0·8	0·9	1·0	1·0	1·0	1·1	1·2	1·4	0·8	4 49	+1·0	2 13	2·9	18
1·2	1·0	0·9	1·0	1·0	1·2	1·2	1·3	1·4	1·3	4 45	+0·2	6 41	2·8	19
1·0	1·2	1·2	1·2	1·2	1·4	1·3	1·3	1·4	0·9	4 49	+1·7	1 53	1·9	20
1·2	1·2	1·4	1·4	1·2	1·2	1·4	1·4	1·6	1·0	4 24	+1·2	0 53	2·0	21†
1·1	1·2	1·3	1·4	1·4	1·4	1·4	1·4	1·7	**1·1**	5 13	+1·0	2 17	2·3	22†
1·4	1·5	1·5	1·6	1·5	1·7	1·8	1·7	1·8	1·4	4 25	+0·8	7 13	2·5	23†
1·2	1·0	1·2	1·1	1·2	1·2	1·3	1·3	1·7	1·3	5 41	+2·3	8 41	2·9	24
0·9	1·2	1·2	1·0	1·2	1·0	1·1	1·1	1·1	**1·5**	12 53	0·4	0 51	3·4	25
0·9	0·7	0·5	0·7	0·8	0·7	0·8	0·9	1·1	1·1	4 41	+2·1	8 1	3·3	26
1·0	1·0	0·9	1·1	1·1	1·0	1·1	1·1	1·5	1·3	4 39	0·4	7 27	2·3	27
0·9	1·1	1·1	1·1	0·9	1·0	1·0	0·9	1·2	0·8	5 13	+1·4	7 57	2·0	28
1 1	1·3	1·3	1·1	1·1	1·3	1·5	1·8	1·8	1·3	5 21	+0·8	7 17	3·3	29
1·3	1·3	1·2	1·1	1·0	1·3	1·6	1·5	1·4	1·1	9 43	+0·9	6 57	2·8	30
1·4	1·4	1·4	1·3	1·3	1·1	1·1	1·4	1·5	1·2	3 49	+0·4	1 59	2·0	31
0·9	0·9	0·9	0·9	0·9	0·9	0·9	1·1	1·3	0·9					Mean.
1·3	1·3	1·4	1·4	1·3	1·4	1·4	1·5	1·6	**1·1**					Mean†

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1·1	1·0	1·1	0·8	0·5	0·6	0·8	0·9	1·0	1·0	9 57	+0·4	2 9	2·7	1
1·4	1·4	1·3	0·8	0·8	0·8	1·1	1·2	1·3	1·3	10 21	+0·7	6 53	3·7	2
1·7	1·7	1·5	1·3	0·9	0·5	+0·3	+1·0	+0·4	0·9	22 21	+1·1	0 57	2·3	3
1·3	1·3	1·1	1·1	1·1	0·8	0·9	0·9	0·9	1·0	10 21	+0·9	7 3	3·0	4
1·3	1·2	1·2	0·8	0·8	0·8	0·8	0·7	1·0	1·0	10 33	+1·3	6 37	3·3	5
1·3	1·4	1·4	1·4	1·2	1·3	1·3	1·2	1·3	1·3	11 29	+0·6	7 9	3·9	6†
1·3	1·5	1·4	1·2	1·2	1·1	1·2	1·2	1·1	**1·4**	11 9	+0·2	6 57	3·8	7†
1·4	1·5	1·5	1·0	0·9	0·7	0·8	1·1	0·9	1·2	3 43	+0·1	8 9	3·4	8
1·0	1·2	1·3	1·0	0·8	0·4	0·8	0·7	0·3	1·1	3 37	+0·7	7 13	**4·0**	9
0·8	0·8	0·8	0·9	1·0	0·9	0·9	1·1	1·2	0·7	3 29	+0·7	7 3	2·9	10
0·8	0·7	0·8	0·9	0·9	1·1	0·9	0·9	0·5	**0·5**	4 43	+0·8	0 0	1·7	11
1·0	1·0	1·1	0·9	0·9	+0·1	0·1	1·4	1·4	1·2	20 9	+0·4	6 9	3·1	12
0·8	0·8	0·8	0·9	0·7	0·9	1·1	1·2	1·3	0·9	10 9	+0·5	0 37	1·9	13
1·4	1·3	1·1	0·9	1·0	0·9	1·1	1·2	1·4	1·0	11 1	+1·0	1 51	2·1	14
0·9	0·7	1·0	0·9	0·8	1·2	1·3	1·5	1·8	0·8	4 1	+0·4	13 9	1·9	15
0·7	0·8	1·1	0·9	0·7	0·7	0·7	1·1	1·3	1·0	13 57	+0·3	1 13	2·0	16
0·8	1·1	0·8	0·8	0·8	0·9	0·9	0·8	1·0	**1·1**	10 17	0·1	6 53	3·0	17
0·7	1·0	1·0	1·1	0·8	1·1	1·0	1·0	1·0	1·0	10 49	+0·5	7 5	3·0	18
0·9	1·1	0·9	0·7	0·7	0·7	1·1	1·1	1·2	1·0	10 53	+0·2	7 41	3·2	19
1·1	1·3	1·4	1·4	1·5	1·5	1·3	**1·3**	1·2	1·3	11 9	0 2	7 9	3·5	20
1·2	1·2	1·2	1·2	1·2	1·1	1·1	1·1	1·1	**1·2**	2 53	+0·3	6 49	3·0	21†
1·1	1·1	1·3	1·4	1·3	1·3	1·3	1·2	1·3	1·1	4 1	+0·8	8 45	1·9	22†
1·2	1·4	1·4	1·4	1·4	1·3	1·3	1·4	1·5	1·3	3 29	+0·5	7 45	2·6	23†
1·2	1·1	1·0	0·7	0·5	0·3	0·3	+0·2	0·0	0·9	10 57	+0·3	7 11	2·4	24
1·3	1·3	1·3	1·2	0·9	1·0	0·4	0·2	0·3	**1·0**	11 37	+0·4	6 29	3·4	25
1·1	1·0	0·9	1·1	1·1	0·9	0·7	0·7	0·8	0·8	2 45	**+1·8**	8 37	2·6	26
0·9	0·9	0·9	1·0	1·0	1·0	0·9	1·0	1·0	1·0	3 21	+0·6	8 1	2·6	27
1·0	1·1	1·0	0·8	0·4	0·3	0·1	0·5	1·4	0·9	3 23	+0·6	7 13	2·3	28
1·1	1·1	1·1	1·0	0·9	0·9	0·9	0·9	1·0	1·0					Mean.
1·2	1·3	1·3	1·3	1·3	1·2	1·2	1·2	1·3	1·3					Mean†

* The daily mean value of declination derived from 24 hourly values has been corrected for progressive change by 1/48 of the difference between the values of the initial and terminal hours.

†Five internati nal quiet days.

‡ The figures preceded by + sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	0·3	0·9	+0·3	+0·8	+1·1	+0·4	0·7	0·5	1·0	0·4	0·4	1·2	1·6	2·0	1·0
2†	0·9	0·8	0·1	+0·9	+1·4	+0·9	0·3	1·8	2·9	2·5	1·8	0·9	0·7	0·9	0·9
3	1·1	0·8	0·3	+0·4	+0·8	+0·1	1·0	2·2	1·9	1·3	0·9	0·3	0·4	1·2	1·2
4	0·7	0·4	+0·8	+1·4	+0·9	0·3	1·5	2·0	1·6	1·6	1·2	1·0	1·3	1·6	1·5
5	0·6	0·5	0·1	+0·9	+1·0	+0·4	0·7	1·6	1·8	1·3	0·7	0·5	0·7	1·4	1·8
6	0·7	0·7	0·4	0·4	0·7	1·1	2·0	2·9	2·8	1·9	1·2	1·1	1·2	1·5	1·1
7	0·8	1·1	1·0	0·6	0·4	0·3	1·0	1·7	1·9	1·7	1·3	0·9	0·8	1·0	0·8
8	0·9	1·1	0·5	0·2	0·2	0·5	1·2	2·0	2·4	1·6	0·5	0·1	0·2	0·9	1·2
9	0·6	0·7	0·2	+0·6	+0·6	+0·6	0·3	0·6	0·9	1·3	0·1	0·1	0·5	1·0	1·1
10	1·1	0·7	0·2	+0·8	+1·6	+0·5	+0·4	0·4	1·7	1·6	0·3	+0·3	+0·5	+0·5	0·7
11	1·0	0·9	0·5	0·4	0·5	1·2	1·6	2·2	2·7	2·2	1·3	0·1	0·3	0·5	0·6
12	1·1	0·8	0·1	+0·9	+0·9	+0·1	0·5	1·3	2·3	2·1	1·1	0·5	0·6	1·0	1·0
13	1·2	1·2	0·8	+0·3	+0·3	+0·4	+0·1	0·1	1·2	1·1	0·8	0·5	0·6	0·6	0·7
14	0·7	0·5	0·2	+0·8	+1·4	+1·3	+1·0	0·5	1·9	2·3	1·7	1·1	0·9	1·0	1·1
15	2·1	2·1	1·2	0·2	+0·7	+0·7	+0·1	0·7	1·7	1·4	0·4	0·1	0·1	0·5	0·7
16	0·9	0·7	0·1	+0·9	+0·7	+0·6	0·0	1·4	2·3	2·0	1·1	0·2	1·1	0·8	0·8
17	0·5	0·5	+0·4	+1·3	+2·0	+2·0	+0·6	0·9	1·9	1·9	1·3	0·9	0·6	0·3	0·5
18	1·3	0·8	+0·8	+1·8	+2·2	+1·3	0·4	2·1	2·5	2·0	1·1	+0·1	+0·2	0·6	0·7
19	1·1	1·0	0·5	+0·4	+1·1	+0·8	+0·1	1·3	2·6	2·8	1·9	1·0	0·6	+0·1	0·5
20	1·1	1·0	0·3	+0·9	+1·5	+1·1	+0·3	1·2	3·0	3·0	1·8	0·3	+0·5	+0·3	+0·2
21	1·1	0·7	+0·2	+1·3	+1·8	+1·8	+1·0	0·6	0·4	1·1	0·4	+0·3	+0·2	0·6	1·0
22†	1·4	1·1	0·1	+1·1	+1·5	+1·0	0·1	1·6	2·6	2·5	1·5	1·1	1·0	1·2	1·1
23†	1·3	1·4	0·9	+0·3	+0·7	+0·3	0·9	1·5	2·1	2·2	1·5	1·1	0·9	1·1	1·3
24†	1·3	1·2	0·3	+0·5	+0·8	0·0	0·7	1·7	2·4	2·0	1·6	1·4	1·6	1·6	1·4
25†	1·7	1·8	1·2	0·4	+0·4	+0·1	0·9	2·0	3·1	3·2	2·7	1·9	1·4	1·4	1·6
26	1·1	1·1	0·8	+0·4	+0·6	+0·2	0·6	2·5	3·1	2·4	1·7	0·9	0·4	0·3	0·6
27	0·7	0·3	0·0	+0·4	+0·8	+0·4	1·4	3·3	4·1	3·1	1·9	0·5	+0·2	0·4	0·6
28	0·5	0·1	+1·4	+1·7	+1·7	+1·1	+0·1	1·5	2·5	2·4	1·5	1·2	1·4	0·9	1·1
29	0·5	+0·2	+0·5	+0·9	+0·9	+0·5	0·8	2·2	2·5	2·0	0·7	0·0	0·5	1·1	1·3
30	0·5	0·2	+0·3	0·1	1·5	2·8	3·4	4·3	4·3	3·5	2·4	1·7	1·5	1·5	1·9
31	0·7	0·0	+1·2	+1·8	+1·0	0·5	2·5	3·8	4·2	3·9	2·5	1·5	1·4	1·5	1·4
Mean .	0·9	0·8	0·1	+0·6	+0·8	+0·3	0·6	1·7	2·3	2·1	1·3	0·7	0·7	0·9	1·0
Mean† .	1·3	1·3	0·5	+0·5	+1·0	+0·5	0·6	1·7	2·6	2·5	1·8	1·3	0·8	1·2	1·3

APRIL.

1	1·2	0·9	+0·3	+1·4	+1·2	0·4	2·1	3·9	4·8	3·9	2·7	1·8	1·8	1·5	1·5
2	1·2	0·9	+0·7	+2·1	+2·7	+1·2	1·2	3·0	4·0	3·9	3·3	2·3	1·3	1·1	1·4
3	0·9	1·2	0·3	+1·4	+2·1	+1·4	1·1	2·8	3·6	3·6	2·9	1·9	1·1	0·8	1·4
4	1·8	1·3	0·1	+1·3	+1·9	+1·3	0·5	2·5	4·0	4·3	3·0	2·0	1·2	0·4	0·8
5	1·3	0·5	+1·2	+2·3	+2·4	+1·2	0·9	3·1	4·5	4·3	2·9	1·7	0·7	0·6	1·6
6	1·5	1·2	0·4	+0·4	+0·3	0·5	2·3	4·0	4·9	3·0	1·8	1·2	0·7	0·9	1·4
7	1·4	0·9	+0·7	+1·5	+1·5	+1·1	0·9	2·9	3·8	3·2	2·5	1·9	1·9	1·7	1·5
8	1·3	1·3	+0·1	+1·1	+1·4	+0·1	1·9	3·1	3·1	2·4	1·0	+0·1	+0·4	+0·1	0·8
9	1·5	1·7	0·8	+0·2	+0·6	0·2	2·1	4·1	5·0	5·0	3·5	1·9	0·6	+0·4	+0·2
10	1·2	0·9	+0·7	+1·5	+1·7	+0·9	1·6	3·4	4·1	3·4	1·5	0·3	0·1	0·3	0·9
11	1·5	1·4	0·2	+1·2	+1·2	+0·3	2·2	4·0	4·0	3·1	2·0	1·5	2·2	1·9	1·4
12	1·9	1·1	0·3	+1·0	+0·8	0·3	1·5	2·7	4·0	3·3	2·6	1·8	1·3	1·4	1·4
13	1·3	0·8	1·3	+2·6	+1·9	1·3	4·0	5·3	5·4	5·0	4·2	3·4	2·3	1·9	1·8
14	2·4	2·2	0·7	+0·4	+0·6	1·0	3·9	5·9	5·7	4·9	2·9	0·9	+0·7	+2·1	+1·7
15	0·8	0·7	+0·1	+0·2	+0·2	1·2	3·3	4·8	4·6	3·5	2·5	1·3	0·7	0·3	0·9
16	1·4	0·7	+0·6	+1·7	+1·8	0·3	2·5	3·5	3·7	3·3	2·5	1·6	1·0	1·1	1·4
17†	1·8	1·1	+0·5	+1·4	+1·3	0·5	2·5	4·3	5·0	4·4	3·1	1·9	1·7	1·7	1·4
18†	1·5	0·8	+0·6	+1·9	+2·1	0·7	1·0	3·1	3·8	3·2	1·8	0·7	0·4	0·7	1·6
19	1·5	0·6	+0·5	+1·1	+0·9	0·9	2·5	4·2	5·0	4·7	3·7	2·4	1·4	1·5	2·2
20†	1·5	1·1	0·1	+0·5	+0·1	1·5	3·3	4·8	5·4	4·8	4·0	2·9	2·3	1·8	2·3
21†	1·9	1·3	0·0	+0·3	0·5	2·3	3·9	4·7	4·5	3·7	2·6	1·5	1·1	1·7	2·3
22†	1·7	1·5	0·3	+0·7	+0·5	1·8	3·5	4·8	4·7	3·9	2·8	2·3	1·7	1·7	2·1
23	1·8	1·7	0·7	+0·2	0·1	1·6	3·2	4·4	4·7	4·4	3·5	2·9	2·1	2·1	2·3
24	1·5	0·6	+0·6	+0·9	+0·7	0·9	2·4	2·9	3·9	4·0	3·4	2·6	2·5	1·9	1·7
25	0·3	+0·3	+1·3	+1·5	+0·9	0·8	2·5	3·9	4·3	4·3	3·6	2·9	2·3	2·0	1·7
26	1·2	0·6	+0·3	+0·2	0·3	1·2	2·4	2·8	2·8	1·8	0·9	0·5	0·8	1·3	1·7
27	1·2	0·4	+0·1	+0·5	+0·1	1·9	3·5	4·2	3·8	3·0	1·9	0·9	0·9	1·5	1·9
28	1·3	0·4	+0·3	0·7	2·4	3·5	3·9	4·1	3·4	2·8	1·9	1·2	1·3	1·8	2·3
29	1·1	0·1	+0·9	+0·8	0·9	2·2	2·6	2·4	2·2	2·1	2·3	2·3	2·0	2·3	2·7
30	1·2	1·0	0·0	0·3	1·9	3·9	4·6	5·1	4·6	3·7	3·1	2·0	1·3	1·3	1·9
Mean .	1·4	0·9	+0·1	+1·0	+0·8	0·7	2·5	3·8	4·3	3·7	2·7	1·8	1·3	1·1	1·5
Mean† .	1·7	1·1	+0·2	+0·9	+0·7	1·4	2·8	4·3	4·7	4·0	2·9	1·9	1·4	1·5	1·9

†Five international quiet days.

‡The figures preceded by '+' sign indicate easterly declination and the rest westerly declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwhich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
1·3	1·3	1·2	1·0	0·8	1·0	1·0	0·9	0·9	0·7	3 53	+1·4	12 53	2·2	1
0·7	0·9	1·1	1·1	1·1	0·9	1·0	1·1	1·1	0·9	3 49	+1·5	7 49	3·0	2†
1·1	1·0	1·2	1·0	0·7	0·8	0·7	0·6	0·7	0·8	3 39	+0·9	7 17	2·6	3
1·3	1·2	1·2	0·9	0·7	0·6	0·6	0·6	0·7	0·8	2 49	+1·5	7 9	2·3	4
1·7	1·6	1·3	1·0	0·7	0·6	0·3	0·3	0·3	0·7	3 37	+1·2	7 45	2·2	5
1·1	1·0	0·8	0·6	0·3	0·2	0·3	0·3	0·3	1·0	20 3	0·1	7 33	3·4	6
0·9	0·9	0·9	0·9	0·7	0·6	0·1	0·2	0·6	0·9	21 25	0·0	7 57	2·3	7
1·3	1·3	1·4	1·3	1·1	0·9	0·5	0·4	0.5	0·9	3 13	0·1	7 33	2·7	8
1·2	0·5	0·1	0·3	0·6	0·6	0·6	0·7	1·1	0·5	4 51	+0·7	23 41	2·0	9
1·0	1·0	1·0	1·0	0·9	0·7	0·5	0·7	1·1	0·4	3 45	+1·7	8 35	2·4	10
0·9	1·2	1·1	0·8	0·6	0·7	0·9	1·4	1·4	1·1	11 13	+0·1	8 9	2·9	11
1·0	1·1	0·9	0·9	0·8	0·8	0·7	0·9	1·1	0·8	3 33	+1·1	8 19	2·6	12
0·6	0·6	0·7	0·8	0·6	0·6	0·6	0·9	0·8	0·6	3 41	+0·5	8 31	1·6	13
0·0	+0·1	0·7	0·7	0·8	0·9	0·8	1·2	1.6	0·6	3 41	+1.6	8 33	2·6	14
0·7	0·6	0·7	0·5	0·6	0·5	1·1	1·0	0·8	0·7	4 29	+0·8	1 9	2·5	15
0·4	0·0	+0·2	+0·3	+0·3	+0·4	+0·3	+0·1	0·1	0·3	3 29	+1·1	7 33	2·5	16
0·7	0·5	+0·4	+0·9	+0·2	0·3	+0·1	0·1	0·8	**0·2**	4 37	+2·2	8 21	2·5	17
0·7	0·6	0·8	0·6	0·6	0·6	0·6	0·9	0·9	0·5	3 47	**+2·3**	7 53	2·6	18
0·9	0·5	0·9	0·6	0·5	0·7	0·9	0·9	1·1	0·7	4 5	+1·2	8 29	3·2	19
+0·3	0·7	1·0	0·8	1·0	0·8	0·6	0·9	1·2	0·6	3 49	+1·6	8 29	3·7	20
1·0	1·0	1·0	0·9	0·9	0·9	0·9	1·0	1·1	0·3	4 39	+2·0	7 47	1·6	21
1·1	1·3	1·1	0·9	1·0	1·0	1·0	1·1	1·2	0·9	3 45	+1·6	8 35	3·0	22†
1·5	1·4	1·4	1·3	1·2	0·9	0·9	1·1	1·3	1·1	4 7	+0·8	8 45	2·5	23†
1·4	1·4	1·4	1·3	1·2	1·1	1·1	1·3	1·5	1·2	4 5	+0·9	8 13	2·5	24†
1·7	1·6	1·6	1·5	1·3	1·0	1·0	1·0	1·3	1·4	4 29	+0·5	8 45	3.5	25†
0·4	+0·2	+0·3	+0·1	+0·1	0·1	0·6	0·8	0·7	0·7	3 9	+0·7	7 57	3·5	26
+0·1	+0·3	0·4	0·9	1·1	1·0	0·7	0·9	0·8	0·8	4 25	+0·9	7 41	4·4	27
1·0	0·7	0·4	0·2	0·2	0·2	0·4	0·4	0·4	0·5	2 57	+2·0	8 33	3·1	28
1·3	1·4	1·4	1·1	0·9	0·9	1·0	0·9	0·9	0·8	3 49	+1·1	8 5	2·7	29
1·7	1·1	0·8	0·3	0·8	0·7	0·7	0·7	0·6	**1·6**	2 13	+0·5	7 45	4·7	30
1·3	1.2	1·1	0·9	0·7	0·9	0.7	1·0	1·1	1·2	2 45	+1·9	7 53	4·5	31
0·9	0·9	0·9	0·7	0·7	0·7	0·7	0·8	0·9	0·8					Mean.
1·3	1·3	1·3	1·2	1·1	1·0	1·0	1·1	1·3	1·1					Mean†.

APRIL.

1·4	1·3	1·1	0·9	0·8	0·7	0·8	0·9	1·1	1·4	3 17	+1·5	7 45	5·3	1
1·5	1·2	1·1	0·9	0·9	1·0	1·0	0·9	0·9	1·1	3 53	**+2·9**	8 25	4·5	2
1·3	1·1	1·1	1·3	1·3	1·1	1·1	1·4	1·8	1·2	4 17	+2·2	8 17	4·1	3
1·1	1·3	1·3	0·9	0·9	1·0	0·7	0·8	1·0	1·1	4 9	+2·0	9 9	4·4	4
1·5	1·5	1·3	0·8	0·9	0·9	1·1	1·1	1·4	1·1	3 49	+2·7	8 1	4·9	5
1·4	1·3	1·1	0·9	1·0	0·8	0·9	1·2	1·3	1·4	3 21	+0·5	7 41	5·4	6
1·1	0·9	0·5	0·3	0·2	0·4	0·7	0·7	1·0	1·0	3 29	+1·8	8 5	4·2	7
1·0	1·0	0·9	0·7	0·9	1·0	1·0	1·1	1·5	**0·9**	3 51	+1·6	7 33	3·4	8
+0·5	+0·9	+0·9	+0.5	0·5	0·7	0·9	1·0	1.3	1·1	16 31	+1·1	8 25	6·1	9
1·2	1·2	1·2	1·0	1·3	1·3	1·2	1·5	1·7	1·0	4 5	+1·9	8 9	4.4	10
0·1	+0·1	+0·2	+0·3	0·6	1·0	0·8	1·1	1·8	1·1	4 7	+1·6	8 5	4·4	11
1·3	1·2	1·1	1·1	0·9	1·6	1·1	1·4	1·4	1·3	3 1	+1·1	8 9	4·3	12
1·5	1·5	1·6	1·4	1·3	1·3	1·3	1·4	1·7	2·0	3 19	+2·7	7 33	5·6	13
+0·2	0·5	0·8	0·7	0·8	0·8	0·9	0·8	0·8	1·3	12 58	+2·4	8 49	7·7	14
0·3	0·9	1.2	1·3	1·3	1·2	1·1	1·3	1·5	1·4	3 13	+0·3	7 21	5·4	15
1·7	1·6	1·4	1·4	1·3	1·5	1·4	1·5	1·7	1·4	3 49	+1·9	8 1	3·9	16
1·5	1·6	1·6	1·7	1 5	1·4	1·4	1·6	1·6	1·7	3 25	+1·5	7 49	5·3	17†
1·8	1·8	1·7	1·6	1·6	1·6	1·6	1·5	1·6	1·2	3 29	+2·2	8 21	3·9	18†
2·2	2·1	2·0	2·0	1·8	1·6	1.7	1·9	1·7	1·9	3 5	+1·2	8 33	5·3	19
2·4	2·2	2·0	1·9	1·8	1·7	1·5	1·6	1·7	**2·2**	3 11	+0·6	7 49	5·5	20†
2·2	2·2	2·0	1·9	1·9	1·7	1·6	1·5	1·7	2·0	2 43	+0·6	7 21	5·0	21†
2·1	2·2	2·0	1·9	1·8	1·6	1·7	1·7	1·8	2·0	3 37	+0·8	7 19	5·0	22‡
1·4	1·3	1·5	1·5	1·6	1·2	1·4	1·9	1·9	2·0	3 27	+0·3	8 9	4·9	23
1·6	1·0	0·9	0·9	0·9	0·8	0·8	0·9	0·9	1·4	3 25	+1·1	8 33	4·4	24
1·8	1·7	1·7	1·6	1·5	1·6	1·3	1·3	1·5	1·6	3 9	+1·6	·3	4·4	25
1·6	1·7	1·8	1·4	1·1	1·1	1·2	1·3	1·2	1·3	2 1	+0·4	23	3·1	26
2·1	2·1	1·8	1·8	1·7	1·4	1·5	1·6	1·5	1·7	3 3	+0·6	21	4·3	27
2·3	2·2	2·1	1·9	1·6	1·4	1·2	1·2	1·3	1.9	2 1	+0·4	6 39	4·3	28
3·0	2·7	2·2	2·0	1·7	1·5	1·4	1·3	1·2	1·7	2 37	+1·0	15 13	3·1	29
2·0	1·9	1·7	1·3	1·3	1·1	1·1	1·3	1·5	2·1	2 33	+0·1	6 45	5·3	30
1·5	1·4	1·3	1·2	1·2	1·2	1·2	1·3	1·4	1·5					Mean.
2·0	2·0	1·9	1·8	1·7	1·6	1·6	1·6	1·7	1·8					Mean†.

*See footnote on page 89.

†Five international quiet days.

‡ The figures preceded by + sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	1·4	0·4	+1·0	+1·5	+0·4	1·7	3·3	4·0	3·8	3·0	2·3	1·7	1·6	1·6	2·1
2	1·6	0·5	+0·5	+0·7	0·8	2·6	4·3	5·4	5·3	4·2	3·5	2·3	1·9	2·0	2·4
3	1·6	0·2	+0·7	+2·1	+1·1	1·6	2·7	3·8	4·0	3·3	2·2	1·3	1·1	1·9	2·1
4	+0·3	+1·3	+2·2	+1·5	0·2	3·3	5·0	5·3	5·1	4·6	3·6	2·7	1·7	1·6	2·1
5	0·5	+0·5	+1·4	+0·9	0·0	1·4	2·3	2·5	2·5	1·4	0·2	+0·5	0·5	1·5	1·8
6	0·8	0·6	0·1	0·1	0·9	1·7	2·9	3·6	3·9	3·4	3·0	2·3	1·4	1·0	1·3
7	1·3	0·9	0·0	+0·6	+0·5	0·6	1·6	2·4	2·3	2·1	1·9	1·7	1·1	+0·1	+1·1
8	0·8	0·2	0·2	0·9	2·1	3·4	4·1	4·6	4·2	3·7	3·3	2·7	2·1	1·7	1·3
9	1·4	1·2	+0·2	+0·8	+1·1	0·1	1·3	2·1	2·4	2·1	1·7	1·5	1·2	1·2	1·3
10	1·3	0·6	+0·2	+0·3	0·2	1·5	3·0	4·7	5·3	4·3	3·1	2·0	1·3	1·1	1·4
11†	2·0	0·7	+0·7	+1·5	1·0	1·4	2·9	3·9	4·0	3·5	3·1	2·5	2·4	2·4	2·3
12†	2·0	0·8	+0·7	+1·2	+0·1	2·1	4·1	5·0	4·4	3·4	2·5	1·7	1·4	1·8	2·3
13	1·8	0·7	+0·4	+0·4	0·8	2·4	3·6	4·2	4·2	3·3	2·1	1·5	1·1	1·3	1·9
14	1·3	0·4	+0·1	+0·3	0·5	2·3	3·1	3·6	3·3	2·3	1·7	1·1	1·5	1·8	2·5
15	1·4	0·9	0·3	0·1	1·0	2·9	3·8	4·3	4·1	3·1	1·2	1·2	1·3	1·4	1·4
16	1·3	0·8	0·3	0·4	1·3	2·5	3·6	4·2	4·4	3·7	2·9	2·3	1·6	1·8	1·7
17†	1·2	0·6	+0·1	0·3	1·0	2·6	3·5	4·0	4·1	3·6	3·1	2·3	1·7	1·8	2·3
18†	1·7	1·5	0·7	0·3	0·6	2·1	3·6	4·4	4·3	3·3	1·8	1·1	0·9	1·3	1·8
19	1·4	0·5	0·0	+0·2	0·3	2·6	4·5	4·8	4·1	3·3	2·3	1·7	1·3	1·0	1·4
20	1·1	0·2	+0·4	0·2	1·2	3·2	4·2	4·8	4·9	4·3	3·5	2·0	1·6	1·3	0·8
21	0·7	+0·5	+1·6	+1·5	+0·7	1·3	2·8	3·9	4·2	3·3	3·1	2·5	2·0	2·0	2·1
22	0·9	0·3	+0·6	+0·9	+0·1	1·6	3·2	4·6	4·5	3·2	2·4	2·1	2·5	2·5	2·0
23	1·0	0·5	+0·2	0·0	0·0	1·5	2·6	3·0	3·0	2·3	1·8	1·8	1·9	1·8	2·4
24	1·1	0·4	+0·2	+0·1	0·8	2·0	3·5	5·0	4·8	3·8	3·2	3·1	2·7	2·5	2·4
25	0·9	0·3	+0·7	+0·7	0·1	1·3	2·5	3·9	3·6	2·9	2·3	1·7	1·9	2·1	2·5
26†	1·2	0·8	0·0	+0·4	+0·1	1·7	3·7	5·4	5·1	3·8	2·7	1·9	1·9	2·0	2·9
27	1·0	+0·1	+1·2	+1·5	+0·2	3·2	4·2	5·3	5·8	5·2	3·4	2·6	2·1	2·1	2·6
28	1·5	0·2	+0·9	+1·2	0·1	3·3	5·3	6·3	6·3	5·2	3·8	2·5	2·2	2·2	2·8
29	0·9	+0·5	+1·5	+0·9	0·9	3·2	5·2	6·7	6·4	4·9	3·2	1·9	1·5	1·3	2·0
30	0·8	+0·8	+2·0	+1·1	0·9	3·2	5·2	6·2	6·4	5·7	4·1	2·7	2·1	2·0	2·1
31	0·9	+0·2	+1·2	+1·6	+0·9	2·0	4·2	5·3	6·0	5·5	4·3	2·9	2·2	2·0	2·4
Mean . .	1·2	0·3	+0·5	+0·6	0·3	2·1	3·5	4·4	4·4	3·6	2·7	2·0	1·7	1·7	1·9
Mean† . .	1·6	0·9	+0·1	+0·5	0·5	2·0	3·6	4·5	4·4	3·5	2·6	1·9	1·7	1·9	2·3

JUNE.

1	1·7	0·5	+0·4	+0·5	0·7	2·6	4·5	5·2	5·6	5·2	4·4	3·4	2·7	2·3	2·4
2	1·1	+0·2	+1·1	+1·2	+0·1	1·2	2·4	3·0	3·6	3·5	2·9	2·3	2·9	2·9	2·5
3	1·7	0·8	+0·5	+1·4	+0·7	1·1	2·4	4·1	4·2	4·0	3·3	2·2	2·0	1·9	2·1
4	1·6	1·4	1·3	1·5	2·4	2·9	2·9	3·1	3·9	4·8	4·4	3·8	2·5	1·8	2·1
5	1·9	1·4	1·0	1·4	1·9	2·3	2·7	3·4	4·0	3·8	3·0	2·5	2·3	2·1	2·2
6	2·2	1·3	0·1	+0·3	0·7	3·0	3·5	3·9	4·2	3·9	3·5	2·7	2·8	2·9	2·9
7	1·6	0·7	0·4	0·4	1·0	2·3	3·4	5·1	5·1	4·1	2·8	1·9	1·7	1·8	2·0
8†	1·8	0·5	+0·2	0·1	0·7	2·9	4·1	4·6	4·4	3·7	2·9	1·9	1·3	1·5	2·2
9	2·2	1·3	0·6	0·0	+0·1	0·9	2·4	3·0	3·5	3·0	2·3	1·3	1·0	1·4	1·9
10	1·4	0·4	0·1	1·2	1·9	2·7	3·1	3·9	3·9	3·0	2·4	1·9	1·7	1·8	2·0
11	1·5	0·5	+0·1	+0·1	0·7	1·8	3·3	4·8	4·8	4·2	2·0	2·3	2·3	1·8	2·0
12	1·5	0·3	+1·1	+0·7	0·9	3·5	5·0	5·3	4·5	2·8	2·0	2·1	2·1	2·4	2·5
13	1·6	0·5	+0·5	+0·1	1·1	2·7	3·6	3·7	4·1	3·3	2·2	2·3	2·6	2·7	2·7
14	1·5	0·1	+0·8	+0·5	0·8	2·3	2·9	3·9	3·8	3·6	3·3	2·6	1·8	1·8	2·2
15	1·7	0·7	+0·3	+0·5	0·0	1·6	3·6	5·7	6·8	6·8	5·7	3·8	2·6	2·1	2·2
16	1·6	0·4	+0·9	+1·1	+0·3	1·9	3·5	4·7	4·9	4·9	3·7	2·2	1·6	2·0	2·3
17	1·4	0·2	+1·0	+1·5	+0·9	1·0	3·0	4·7	5·3	5·0	4·7	3·7	2·8	1·7	2·1
18	1·2	0·1	+0·9	+1·1	+0·4	1·4	2·7	3·2	3·7	4·0	3·3	2·8	2·3	1·9	2·3
19†	1·5	0·6	0·2	0·0	0·8	2·3	4·1	5·2	5·3	4·5	2·4	2·2	2·3	2·1	2·1
20†	1·8	1·0	+0·5	+0·6	0·4	2·3	3·8	4·6	4·8	4·4	3·5	2·8	2·8	2·6	2·6
21†	1·8	1·0	0·5	0·6	0·8	2·0	3·3	4·5	5·3	5·0	4·3	3·1	2·4	2·2	2·7
22	1·2	0·4	+0·6	+0·8	0·5	2·5	3·7	4·8	5·7	4·9	4·0	3·3	2·8	2·5	2·8
23	1·1	0·3	0·0	0·4	1·5	2·8	3·9	4·9	4·9	4·2	3·2	3·0	2·9	2·9	2·7
24†	1·3	0·7	0·5	1·2	2·1	2·8	3·8	5·0	5·1	4·1	3·4	3·2	3·0	2·8	2·7
25	1·8	0·9	0·3	0·5	0·7	0·8	2·1	4·2	4·9	3·9	3·1	2·5	2·0	2·0	2·6
26	1·3	0·2	+1·2	+1·5	+0·8	0·8	2·5	3·6	4·4	3·9	3·7	2·7	2·8	3·1	2·5
27	1·0	+0·6	+1·8	+1·7	+0·8	1·5	3·5	4·3	4·9	4·3	3·3	2·9	2·6	2·3	2·5
28	1·1	0·4	+0·1	0·1	0·6	3·0	4·7	5·3	4·9	4·0	2·9	1·8	1·1	1·1	1·9
29	1·1	+0·3	+0·8	0·6	0·9	2·9	4·1	4·2	4·0	3·5	2·9	2·4	1·8	1·8	2·2
30	1·1	+0·1	+1·4	+1·3	+0·6	1·8	3·9	5·0	5·0	4·7	3·9	3·2	2·8	2·4	2·7
Mean .	1·5	0·5	+0·3	+0·3	0·5	2·1	3·4	4·4	4·7	4·2	3·4	2·6	2·3	2·2	2·3
Mean† .	1·6	0·8	0·1	0·3	1·0	2·4	3·8	4·8	5·0	4·3	3·5	2·7	2·3	2·2	2·5

†Five international quiet days.

‡The figures preceded by + sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
2·4	2·3	2·1	2·0	1·7	1·9	1·6	1·5	1·8	1·7	2 55	+1·7	7 21	4·1	1
2·2	1·7	1·6	1·5	1·4	1·4	1·3	1·4	1·7	2·1	2 49	+1·1	7 33	5·5	2
2·3	2·0	1·4	1·1	0·7	0·6	0·5	0·2	+0·2	1·2	3 5	+2·2	8 5	4·1	3
2·1	2·0	1·6	1·9	1·4	0·9	0·5	0·5	0·5	1·7	2 1	+2·3	6 53	5·8	4
1·9	2·0	1·9	2·0	1·7	1·1	0·9	0·9	1·0	1·0	1 53	+1·7	7 35	2·8	5
1·8	1·9	1·9	1·9	1·7	1·6	1·5	1·4	1·5	1·8	2 17	+0·3	7 37	4·0	6
+0·9	+0·1	0·9	1·1	1·0	1·1	1·3	1·5	0·9	0·8	13 53	+1·8	7 33	2·6	7
1·8	1·8	1·8	1·8	1·5	1·3	1·3	1·3	1·3	2·1	1 37	+0·3	6 45	4·9	8
1·5	1·3	1·3	1·1	1·2	1·7	1·5	1·7	1·7	1·2	3 40	+1·2	7 22	2·6	9
1·7	1·6	1·7	1·8	1·9	1·8	2·1	2·1	2·0	1·9	2 21	+0·6	8 15	5·6	10
2·4	2·4	2·3	2·3	2·0	1·9	2·0	2·2	2·3	2·1	2 57	+1·6	7 53	4·1	11†
2·6	2·4	2·5	2·2	2·1	2·1	1·9	2·0	2·0	2·1	2 51	+1·5	7 25	5·1	12†
2·3	2·3	2·5	2·4	2·3	2·2	2·2	2·1	1·8	2·0	1 57	+0·5	7 9	4·5	13
2·6	2·5	2·3	2·1	1·9	1·8	1·7	1·5	1·5	1·8	2 31	+0·5	7 13	3·7	14
2·1	2·4	1·9	2·0	1·9	1·6	1·6	1·6	1·7	1·9	3 13	0·0	7 21	4·5	15
2·1	2·0	2·0	1·8	1·8	1·6	1·6	1·5	1·3	2·0	2 41	0·1	7 33	4·5	16
2·3	2·0	1·8	2·1	1·7	1·6	1·7	1·7	1·8	2·1	1 57	+0·2	8 15	4·3	17†
2·2	2·1	2·0	1·9	1·6	1·5	1·5	1·5	1·5	1·9	2 53	0·2	6 51	4·5	18†
1·9	1·7	1·7	1·6	1·2	1·4	1·3	1·2	1·4	1·8	2 17	+0·4	6 31	4·9	19
0·7	1·3	1·3	1·3	1·1	1·0	1·3	1·3	1·2	1·8	2 9	+0·8	7 53	5·1	20
2·2	2·1	2·2	2·0	1·6	1·6	1·5	1·3	1·1	1·6	2 17	+1·9	7 57	4·3	21
1·9	1·9	1·9	1·7	1·4	1·3	1·4	1·5	1·4	1·8	2 49	+1·1	7 25	4·8	22
2·5	2·2	1·8	1·7	1·5	1·4	1·3	1·3	1·2	1·6	2 45	+0·5	7 29	3·1	23
2·3	2·5	2·2	1·8	1·7	1·5	1·5	1·1	1·1	2·1	2 37	+0·4	7 21	5·1	24
2·3	2·1	1·8	1·5	1·4	1·3	1·3	1·5	1·5	1·6	2 33	+1·0	6 51	4·0	25
2·8	2·3	1·9	1·6	1·5	1·3	1·2	1·3	1·5	2·0	3 1	+0·7	7 21	5·9	26†
2·7	2·8	2·7	2·4	2·2	1·8	1·7	1·9	1·9	2·3	2 53	+1·8	8 37	6·3	27
3·2	2·9	2·2	1·5	1·4	0·9	0·7	0·8	1·3	2·3	2 49	+1·5	7 41	6·5	28
2·2	2·2	2·0	1·9	1·8	1·7	1·6	1·5	1·5	2·2	2 1	+1·6	7 23	6·8	29
2·2	2·1	1·8	1·8	1·6	1·6	1·5	1·3	1·2	2·2	2 23	+2·1	7 49	6·6	30
2·5	2·3	2·1	2.1	2·1	1·8	1·9	2·0	2·1	2·2	2 45	+1·7	8 9	6·1	31
2·1	2·0	1·9	1·8	1·6	1·5	1·5	1·4	1·4	1·8					Mean
2·5	2·2	2·1	2·0	1·8	1·7	1·7	1·8	1·8	2·0					Mean†

JUNE.

2·7	2·8	2·7	2·5	1·9	1·3	1·4	1·4	1·5	2·4	2 5	+0·8	8 5	5·7	1
2·4	2·1	2·1	2·1	2·0	1.7	1·5	1·4	1·7	1·8	2 57	+1·5	9 2	3·9	2
2·2	2·3	2·2	2·1	1·9	2·0	1·9	1·8	1·8	1·9	2 59	+1·5	7 1	4·3	3
2·3	2·5	2·5	2·5	2·4	2·3	1·9	2·2	1·9	2·5	1 45	1·2	9 5	5·0	4
2·1	2·1	2·1	2·0	1·9	1·8	1·9	2·0	2·0	2·3	2 1	0·9	8 11	4·5	5
2·8	2·5	2·4	2·3	2·0	2·0	2·0	2·0	1·9	2·4	2 49	+0·5	7 41	4·4	6
2·4	2·5	2·4	2·1	2·3	2·2	2·2	2·1	2·1	2·3	2 23	0·3	7 35	5·6	7
2·4	2·3	2·5	2·4	2·4	2·4	2·5	2·5	2·6	2·3	2 13	+0·3	7 21	4·7	8†
2·4	2·3	2·3	2·4	2·2	2·2	2.1	1·9	1·9	1·8	3 19	+0·2	7 33	3·7	9
2·4	2·5	2·4	2·1	2·3	2·1	2·0	1·9	1·7	2·1	2 1	+0·1	7 45	4·3	10
2·4	2·5	2·3	2·3	2·1	2·0	1·8	1·9	1·9	2·1	2 33	+0·3	7 25	4·9	11
2·5	2·6	2·5	2·4	2·2	2·1	2·1	1·8	1·7	2·2	2 11	+1·2	6 57	5·5	12
2·8	2·7	2·5	2·3	2·1	2·0	2·0	1·9	1·8	2·2	2 9	+0·6	8 5	4·2	13
2·4	2·3	2·2	2·1	1·8	1·7	1·8	1·9	1·9	2·0	2 5	+0·9	7 19	4·1	14
2·4	2·4	2·1	2·0	1·8	1·9	1·8	1·4	1·7	2·5	2 55	+0·6	8 27	7·2	15
2·7	2·6	2·3	2·2	2·0	1·9	1·9	1·9	1·8	2·1	2 41	+1·3	7 33	5·3	16
2·1	1·9	1·9	1·6	1·6	1·5	1·3	1·3	1·4	1·9	3 33	+1·7	8 1	5·4	17
2·5	2·4	2·3	2·2	1·9	1·7	1·7	1·7	1·7	1·9	3 7	+1·3	9 3	4·2	18
2·4	2·4	2·4	2·1	2·0	2·0	1·9	2·0	2·0	2·3	2 49	+0·3	8 1	5·4	19†
2·8	2·6	2·3	2·3	2·2	2·0	2·0	2·0	2·1	2·4	2 41	+0·8	8 21	4·9	20†
2·6	2·5	2·5	2·4	2·2	1·9	1·9	1·9	1·7	2·5	2 13	0·3	8 29	5·5	21†
3·0	2·7	2·3	2·1	1·9	1·6	1·6	1·6	1·5	2·3	3 5	+1·1	8 1	5·9	22
2·9	2·7	2·5	2·1	1·9	1·9	1·8	1·5	1·6	2·4	1 39	+0·1	7 33	5·4	23
2·8	2·7	2·6	2·4	2·3	2.1	2·0	2·1	1·9	2·6	1 9	0·3	7 37	5·4	24†
2·8	2·7	2·7	2·3	2·0	1·8	1·8	1·7	1·5	2·1	2 3	0·0	7 57	5·1	25
2·4	2·4	2·4	2·3	2·1	1·6	1·4	1·2	1·2	1·9	3 1	+1·8	7 57	4·5	26
2·7	2·7	2·6	2·5	2·2	1·9	1·9	1·6	1·5	2·0	2 29	+2·0	8 33	5·1	27
2·3	2·1	2·1	2·0	1·9	1·8	1·7	1·6	1·5	2·1	2 5	+0·2	6 57	5·4	28
2·4	2·3	2·0	1·8	1·5	1·4	1·4	1·3	1·2	1·9	2 3	+1·1	6 25	4·4	29
3·2	2·9	2·8	2·7	2·6	2 3	1·7	1.6	1·5	2·3	2 33	+1·6	8 21	5·2	30
2·5	2·5	2·4	2·2	2·1	1·9	1·8	1·8	1·7	2·2					Mean
2·6	2·5	2·5	2·3	2·2	2·1	2·1	2·1	2·1	2·4					Mean†

*See footnote on page 89.
†Five international quiet days.
‡The figures preceded by + sign indicate *easterly* declination and the rest *westerly* declination.

DECLINATION (WESTERLY‡), 1927.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	
1	1·5	0·6	+0·5	+0·7	0·3	1·6	2·7	4·0	4·7	4·5	3·6	2·7	1·5	1·1	2·2
2	1·5	0·8	0·1	+0·7	+0·7	0·7	2·1	3·1	3·9	5·0	4·6	3·4	2·1	2·1	1·8
3†	0·7	+0·1	+0·5	+0·9	+1·0	+0·1	1·3	2·4	3·3	3·6	3·3	2·6	2·3	1·9	1·6
4	1·2	0·5	0·1	0·1	+0·2	0·5	2·4	3·8	4·3	4·3	4·0	3·0	1·9	1·3	1·7
5	1·4	0·4	+0·7	+1·0	+0·4	1·1	2·6	3·3	3·4	3·2	2·3	1·5	1·5	1·9	2·1
6	1·1	0·4	+0·1	0·2	0·7	1·9	3·2	4·3	4·7	4·7	4·2	3·1	2·5	2·1	2·1
7	1·1	0·6	0·2	0·3	0·5	1·1	2·2	2·8	3·3	3·6	2·1	1·7	0·7	1·1	1·7
8	0·7	0·3	0·4	0·4	0·6	2·0	2·7	3·6	4·1	3·2	2·5	2·0	1·7	1·4	1·7
9	0·7	+0·7	+1·0	+0·6	0·1	1·3	2·5	3·2	3·8	3·4	2·5	1·4	1·2	1·2	1·3
10†	1·2	0·6	0·6	1·3	3·0	3·7	3·8	4·3	4·4	3·3	1·6	0·7	0·2	0·6	1·4
11	1·1	0·1	+0·9	+0·9	0·0	1·7	2·6	2·9	2·6	3·0	2·1	1·7	1·3	1·3	1·8
12	0·9	0·0	+0·3	0·2	0·8	1·1	1·8	2·5	3·1	3·0	2·2	1·4	1·1	1·3	1·9
13	1·0	+0·4	+1·2	+0·7	1·1	2·4	4·3	4·6	3·7	2·9	2·2	1·9	1·9	2·1	2·3
14	1·3	0·4	+0·9	+1·1	+0·1	2·1	3·3	4·7	5·1	4·7	3·1	1·6	0·7	0·9	1·6
15†	1·2	+0·4	+1·7	+1·7	+0·3	1·3	2·6	3·5	3·8	3·6	2·5	1·2	0·8	1·0	1·7
16†	1·3	+0·1	+1·5	+1·2	0·2	2·3	5·0	**6·2**	5·9	4·9	3·4	2·0	1·3	1·4	1·9
17	1·3	0·4	+0·9	+1·5	+0·7	1·3	1·4	4·4	4·9	4·0	3·1	2·2	1·7	1·5	2·0
18	0·9	+0·1	+0·8	+0·8	0·5	2·5	3·7	4·8	5·3	4·9	3·9	2·5	1·9	2·0	2·6
19	1·2	0·1	+1·0	+0·9	+0·2	1·1	3·2	5·1	5·5	5·0	3·8	3·5	2·8	2·4	2·9
20	0·3	0·4	+0·9	+1·2	+0·7	1·3	2·8	3·8	4·3	4·3	4·5	3·7	2·8	2·4	3·0
21	1·3	1·2	0·0	+1·0	+1·1	0·2	2·1	3·4	3·9	4·2	3·8	3·1	2·5	2·2	2·3
22	0·8	0·3	+2·5	+**4·4**	+2·7	+0·4	1·2	3·4	4·7	4·8	4·6	3·9	3·2	2·1	2·8
23	0·3	+0·4	+0·8	+0·6	+0.1	1·1	2·3	3·4	3·4	3·2	3·0	2·1	1·6	1·5	1·6
24	0·9	0·6	+0·4	+0·6	+0·1	1·5	3·3	4·9	5·1	4·2	3·1	2·4	2·3	1·9	1·8
25	0·7	0·1	+1·1	+1.8	+1·3	0·8	2·4	3·8	4·1	4·1	3·7	2·7	2·1	2·1	2·3
26	0·7	+0·5	+0·9	+0·4	0·5	2·1	3·3	4.4	4·5	3·7	2·4	1·6	1·5	1·6	2·0
27	0·5	+0·5	+1·9	+1·7	+0·4	1·9	3·9	4·6	4·6	4·0	3·3	2·2	1·2	1·4	1·6
28	0·7	+0·4	+1·3	+1·2	0·0	2·5	3·8	4·6	4·3	3·8	3·1	2·2	1·8	2·2	2·6
29†	1·5	0·7	0·1	+0·5	+0·5	+1·2	3 0	4·2	4·5	4·1	3·2	2·1	1·1	1·1	1·7
30	1·1	0·3	0·1	0·4	1·6	3·3	4·1	4·0	3·6	2·6	1·8	1·1	0·9	1·2	1·8
31	1·2	0·5	0·2	0.7	2·4	4·5	6·0	5·9	5·3	4·1	3·0	1·7	1·0	1·1	1·5
Mean .	1·1	0·2	+**0·7**	+0·7	0·1	1·5	2·9	4·0	**4·3**	3·9	3·1	2·2	1·7	1·6	2·0
Mean† .	1·2	0·2	+**0·6**	+0·6	0·3	1·2	3·1	4·1	**4·4**	3·9	2·8	1·7	1·1	1·2	1·7

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1	1·3	0·4	+0·6	+1·1	+0·5	0·6	2·3	3·0	2·6	3·0	2·9	2·5	2·1	1·6	1·4
2	1·7	0·9	+0·1	0·1	1·0	2·3	3·3	3·7	4·4	3·9	3·7	2·6	2·0	1·8	2·2
3	1·5	1·0	+0·4	+0·8	0·1	2·0	3·1	3·4	3·5	2·9	2·0	2·0	2·1	2·0	2·1
4	1·3	0·6	0·1	0·3	1·3	2·0	2·9	3·7	3·7	3·5	2·8	2·0	1·3	0·8	0·9
5	1·5	0·7	0·0	0·0	0·7	2·0	2·9	3·2	3·0	2·2	1·3	1·3	1·4	1·5	1·3
6†	1·4	0·7	0·4	0·6	1·4	2·3	3·0	3·7	3·7	2·7	2·8	2·7	1·9	1·9	2·1
7†	1·4	0·4	+0·6	+0·1	0·4	2·5	4·0	4·5	3·8	2·9	1·7	0·4	0·4	1·2	2·3
8	1·1	0·3	+0·2	0·4	1·8	3·8	5·0	5·1	4·0	2·9	2·0	1·1	1·1	1·5	2·1
9	1·3	0·4	+0·5	+0·4	0·5	2·5	3·0	3·2	2·9	2·1	1·1	0·3	0·8	1·6	2·3
10	0·8	0·1	+0·5	+0·3	1·3	4·9	6·1	5·3	4·2	2·7	2·0	1·2	1·1	1·5	1·7
11	1·4	0·7	0·2	0·1	0·7	1·9	2·9	3·8	3·7	3·1	2·8	2·2	1·9	2·1	2·5
12	1·6	1·1	0·5	0·4	1·5	3·2	4·1	3·8	3·3	2·6	2·1	1·8	2·2	2·2	2·5
13†	1·3	0·4	+0·2	0·5	1·5	2·6	3·4	4·7	5·0	4·8	4·0	2·8	2·4	2·1	2·1
14	1·7	1·2	0·5	0·5	1·3	2·8	3·9	4·7	4·8	4·3	3·7	2·9	2·3	2·3	2·6
15	1·4	0·7	+0.5	+0·5	0·9	2·6	4·1	4·9	5·5	4·8	3·5	2·7	2·2	1·8	2·1
16	1·8	0·3	+1·0	+1·0	0·0	1·4	4·0	5·1	5·4	5·0	4·1	3·2	2·2	1·8	2·2
17	1·6	0·8	+0·5	+1·3	+0·5	1·1	2·7	3·7	4·0	3·8	3·1	2·5	1·9	1·7	2·0
18	1·5	0·5	+0·5	+0·9	0·1	2·1	4·4	5·1	5·1	4·5	3·5	2·3	1·6	1·6	2·1
19	1·4	0·7	+0·9	+1·3	+0·1	2·3	3·5	4·2	4·7	4·0	3·2	2·5	1·7	1·5	2·7
20	1·2	0·5	+0·8	+1·1	1·1	3·5	5·1	5·3	3·7	3·1	2·5	2 2	1·1	1·1	2·0
21	+0·4	+**1·2**	+**2·0**	+0·8	0·1	2·1	3·3	4·6	5·7	4·3	3·7	1·2	0·6	0·4	1·3
22	0·4	+0·6	+1·4	+1·1	+0·1	2·5	4·1	4·8	4·8	4·1	2·9	2·0	1·2	1·1	1·3
23	0·9	0·2	+0·8	+1·4	+0·9	0·6	2·7	3·8	4·0	3·8	2·7	1·9	1·6	1·3	1·6
24	1·2	0·2	+0·9	+1·2	0·1	1·5	3·1	4·3	4·8	4·7	3·7	2·3	1·4	1·3	1·7
25†	1·4	0·7	+0·4	0·0	1·6	3·7	5·9	**6·9**	6·7	5·5	3·7	1·8	1·2	1·2	2·1
26†	1·3	0·3	+1·2	+1·2	0·4	1·9	3·6	5·1	5·3	4·4	2·9	1·4	0·7	1·1	2·2
27	1·3	0·2	+0·9	+1·2	0·4	1·9	4·3	5·6	5·6	5·0	3·5	2·2	1·2	1·3	2·0
28	0·9	0·4	+0·3	+0·1	1·6	3·6	4·6	4·9	4·2	3·4	2·2	1·3	0·8	1·3	1·8
29	1·8	1·3	+0·3	+1·1	0·3	2·7	3·6	4·3	3·8	3·7	2·8	2·3	1 6	1·2	1·6
30	1·2	+0·1	+1·1	+0·7	1·2	2·9	5·0	4·6	3·9	2·9	0·9	+1·3	+1·8	+1·0	0·3
31	1·4	0·0	+1·5	+1·6	+0·2	1·9	3·1	3·4	3·3	2·8	1·6	1·2	1·5	1·8	2·1
Mean .	1·3	0·4	+**0.5**	+0·5	0·6	2·4	3·8	**4·4**	4·3	3·7	2·8	1·9	**1·4**	1·4	1·9
Mean† .	1·3	0·5	+**0·4**	+0·1	1·1	2·6	4·0	**4·9**	4·9	4·1	3·0	1·8	**1·3**	1·5	2·1

† Five international quiet days.

‡The figures preceded by + sign indicate *easterly* declination and the not *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M .T-).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
2·9	2·8	2·5	2·2	2·0	2·0	1·8	1·5	1·8	2·1	3 5	+0·8	8 29	5·1	1
1·9	1·9	1·7	1·3	1·2	1·1	1·1	0·9	0·9	1·7	3 17	+0·9	9 21	5·4	2
1·8	1·6	1·4	1·4	1·5	1·5	1·4	1·4	1·3	**1·4**	3 49	+1·1	8 47	3·8	3†
2·0	2·2	1·9	1·8	1·8	1·8	1·5	1·5	1·7	1·9	3 57	+0·3	8 21	4·4	4
2·4	2·2	1·9	1·9	1·8	1·4	1·4	1·2	1·2	1·6	2 31	+1·1	7 29	3·5	5
2·3	2·2	2·2	2·2	1·8	1·3	1·3	1·2	1·2	2·1	2 1	+0·2	8 25	5·0	6
1·9	2·0	2·0	1·7	1·6	1·5	1·6	1·5	1·2	1·6	2 41	0·1	8 53	4·0	7
1·7	1·6	1·6	1·4	1·3	1·4	1·3	1·3	1·3	1·7	1 9	0·1	7 39	4·4	8
1·8	1·8	1·7	1·5	1·6	1·4	1·3	1·5	1·4	1·5	1 49	+1·1	8 19	4·2	9†
1·7	1·8	1·7	1·9	1·7	1·6	1·6	1·6	1·5	1·9	12 9	0·1	8 17	4·5	10
1·9	2·0	2·0	2·1	1·9	1·9	1·6	1·6	1·3	1·5	2 29	+1·0	9 5	3·2	11
2·1	1·9	1·9	1·8	1·9	1·8	1·7	1·5	1·4	1·5	1 43	+0·4	8 13	3·2	12
2·3	2·3	2·1	1·6	1·9	1·6	1·5	1·2	1·2	1·8	2 19	+1·3	6 33	5·1	13
2·0	1·9	1·8	1·8	1·7	1·6	1·6	1·5	1·5	1·8	2 49	+1·2	8 5	5·2	14
2·1	2·1	2·2	2·0	2·0	1·9	1·9	1·9	1·6	1·5	2 39	+2·1	8 29	3·9	15†
2·2	2·3	2·3	2·3	2·1	2·0	1·6	1·6	1·6	2·1	2 9	+1·7	7 9	**6·3**	16†
1·9	1·7	1·7	1·8	1·6	1·6	1·5	1·3	1·2	1·6	3 5	+1·8	7 27	5·1	17
2·9	2·7	2·5	2·2	2·0	1·8	1·8	1·7	1·5	2·2	2 55	+1·2	8 37	5·6	18
2·7	2·1	2·0	2·0	2·0	1·6	1·5	1·3	1·3	2·1	2 31	+1·3	8 21	5·7	19
2·8	2·3	1·9	1·9	1·5	1·7	1·7	1·5	1·5	2·0	3 5	+1·3	9 53	4·8	20
2·5	2·2	2·1	2·1	2·0	1·8	2·2	1·3	1·5	1·9	3 9	**+1·3**	9 34	4·6	21
2·4	1·8	1·6	1·5	1·4	0·9	0·8	0·8	0·6	1·4	2 57	**+6·0**	9 27	5·7	22
1·7	1·6	1·3	1·3	1·3	1·1	1·0	1·0	1·1	1·4	2 5	+0·9	7 37	3·6	23
2·3	2·2	2·1	1·8	1·6	1·2	0·9	0·8	0·9	**1·8**	3 5	+0·7	7 33	5·6	24
2·3	2·2	1·8	1·5	1·3	1·2	1·2	1·1	1·0	1·6	3 5	+1·9	8 29	4·2	25
2·1	2·1	1·9	1·6	1·5	1·6	1·6	1·3	1·1	1·7	1 31	+1·2	7 49	4·7	26
2·2	2·2	2·1	1·9	1·7	1·2	1·3	1·4	1·4	1·7	2 14	+2·2	7 21	4·8	27
2·5	2·3	2·1	1·9	1·9	1·8	1·8	1·8	1·7	2·0	1 55	+1·5	7 9	4·7	28
2·2	2·3	2·4	2·3	2·3	2·2	2·0	1·8	1·6	1·8	3 45	+0·6	7 57	4·6	29†
2·3	2·4	2·3	2·2	2·3	2·3	2·2	1·8	1·6	2·0	1 43	+0·2	6 33	4·4	30
2·1	2·2	2·1	2·2	2·2	2·1	2·0	1·9	1·7	**2·4**	1 49	0·1	6 29	6·3	31
2·2	2·1	2·0	1·8	1·7	1·6	1·5	1·4	1·3	1·8					Mean.
2·0	2·0	2·0	2·0	1·9	1·9	1·7	1·7	1·5	1·8					Mean.†

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1·4	1·4	1·3	1·6	1·7	1·9	1·7	1·9	**2·2**	1·5	3 5	+1·2	6 37	3·4	1
2·3	2·0	1·9	1·8	1·8	1·9	1·5	1·3	1·3	2·0	2 33	+0·4	8 13	4·7	2
2·3	**2·1**	1·9	1·8	1·6	1·7	1·6	1·7	1·4	1·8	**2 33**	+1·1	7 49	3·7	3
1·5	1·8	2·0	1·9	1·9	1·7	1·6	1·6	1·6	1·8	2 49	+0·1	8 33	4·1	4
1·3	1·8	1·8	1·9	1·8	2·0	1·8	1·9	1·7	1·6	2 33	+0·5	7 9	3·5	5
2·2	2·1	2·1	2·2	2·1	2·1	2·0	1·9	1·7	2·1	2 5	0·3	7 27	3·9	6†
2·4	2·4	2·4	2·3	2·1	1·9	1·7	1·6	1·5	1·8	2 5	+0·9	7 5	4·6	7†
2·2	2·3	2·2	1·8	2·0	1·8	1·9	1·9	1·6	2·1	1 53	+0·4	7 1	5·3	8
2·4	2·3	2·1	2·0	2·1	1·8	1·7	1·6	1·3	1·6	2 33	+0.8	7 9	3·5	9
1·9	2·1	2·1	2·2	2·2	2·2	2·1	2·0	1·9	2·1	2 15	+0·7	5 41	6·4	10
2·5	2·7	2·4	2·4	2·1	2·0	1·8	1·8	1·8	2·1	2 37	+0·1	7 45	3·9	11
2·6	2·2	2·1	2·2	2·1	2·1	2·0	1·8	1·6	2·1	3 9	0·3	6 15	4·2	12
2·2	2·2	2·1	2·1	1·9	1·9	1·9	2·1	1·9	2·3	2 5	+0·4	8 19	5·3	13†
2·7	2·6	2·4	2·2	3·0	1·8	1·7	1·6	1·7	**2·5**	2 9	0·4	7 39	4·9	14
2·6	2·7	2·5	2·3	2·0	1·9	1·9	1·9	1·8	2·3	2 35	+1·1	8 5	5·6	15
2·5	2·4	2·3	2·1	2·0	1·8	1·7	1·9	1·7	2·2	2 37	+1·4	7 49	5·8	16
2·3	2·5	2·1	1·9	1·7	1·8	1·8	1·8	1·8	1·9	3 5	+1·5	8 31	4·1	17
2·4	2·5	2·5	2·3	2·1	1·8	1·9	1·6	1·5	2·1	2 53	+1·1	7 43	5·5	18
2·7	2·7	2·5	2·3	2·1	2·1	1·7	1·3	1·3	2·0	3 9	+1·5	8 5	4·9	19
2·3	1·8	1·3	1·1	0·7	1·1	0·7	0·0	0·4	1·6	2 43	+1·5	6 45	6·8	20
1·7	1·5	0·8	0 6	1·1	0·9	0·9	0·9	0·7	1·3	2 15	+**2·7**	7 57	**8·6**	21
1·6	1·4	1·7	1·7	1·7	1·5	1·5	1·3	1·2	1·7	2 29	+1·5	7 33	5·1	22
1·7	1·7	1·9	1.9	1·8	1·9	1·7	1·7	1·4	1·6	3 9	+1·5	8 25	4·1	23
2·1	2·1	2·1	2·1	2·0	1·8	1·9	1·8	1·6	1·9	2 45	+1·6	8 41	5·0	24
2·3	2·1	2·0	1·9	1·9	1·8	1·8	1·7	1·6	2·5	2 9	+0·6	7 33	7·1	25†
2·2	2·2	2·0	1·9	1·8	1·8	1·6	1·7	1·7	1·9	2 9	+1·4	7 29	5·4	26†
2·4	2·3	2·3	2·2	2·1	1·8	1·6	1·4	1·3	2.1	2 41	+1·3	7 45	5·8	27
2·2	2·4	2·3	2·3	2·2	2·0	1·8	1·7	1·5	2·1	2 21	+0·5	6 37	5·1	28
2·4	2·8	1·4	0·9	0·9	0·7	0·7	1·3	1·4	1·7	2 45	+1·7	7 21	4·5	29
0·5	1·0	1·0	1·1	1·9	1·9	1·8	1·5	1·4	**1·2**	11 19	+2·3	6 29	5·2	30
2·3	1·9	1·7	1·7	1·7	1·8	1·9	1·9	1·7	1·6	2 41	+2·0	7 33	3·5	31
2·1	2·1	2·0	1·9	1·9	1·8	1·7	1·6	1·5	1·9					Mean.
2·3	2·2	2·1	2·1	2·0	1·9	1·8	1·8	1·7	2·1					Mean.†

*See footnote on page 89.
†Five international quiet days.
‡The figures preceded by ' + ' sign indicate *easterly* declination and the rest *westerly* declination.

DECLINATION (WESTERLY‡), 1927.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours.														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	1·4	0·5	+1·0	+1·3	+0·2	1·1	2·6	3·9	4·4	3·6	3·2	1·9	0·9	0·6	0·3
2	1·1	0·2	+0·5	0·1	1·6	3·4	4·7	5·6	5·5	4·5	2·9	1·8	1·3	1·4	1·5
3	1·2	0·4	+0·6	+0·1	1·6	3·6	4·8	5·6	5·6	5·1	3·4	1·8	1·1	1·5	1·9
4	1·4	0·6	+0·5	+0·9	0·0	2·1	3·3	4·3	4·4	3·3	1·9	1·0	+0·2	+0·1	0·4
5	1·4	0·6	+0·6	+0·5	0·4	2·1	3·3	5·1	5·1	4·3	3·3	2·2	1·8	1·9	2·3
6	1·4	0·8	+0·4	+0·8	0·3	1·9	2·8	3·9	4·7	4·1	3·7	3·0	2·2	2·2	2·4
7	1·4	0·5	+0·4	+0·5	0·7	2·2	3·2	4·5	4·7	3·5	2·5	1·8	0·5	2·4	2·9
8	1·2	0·1	+0·3	0·9	3·5	5·7	6·9	6·8	5·7	4·4	2·8	1·9	2·0	2·3	3·3
9	1·1	0·6	+0·4	+0·1	1·9	3·5	5·0	5·8	5·7	3·8	2·1	1·6	1·4	1·3	1·7
10	1·5	0·2	+1·5	+1·4	0·3	2·2	3·4	4·5	4·5	3·8	3·1	2·2	1·6	1·8	1·4
11	0·7	+0·1	+2·0	+2·2	+1·0	0·9	2·9	4·6	6·0	6·0	4·9	3·7	2·5	2·2	2·0
12	1·2	0·2	+1·8	+2·3	+1·0	1·6	4·0	5·6	6·2	5·3	3·7	2·6	2·1	2·1	2·2
13	1·7	1·1	+0·1	+0·6	+0·1	1·4	3·4	4·6	4·8	3·9	2·8	1·7	1·5	1·7	2·0
14	1·1	0·5	+0·8	+1·2	0·2	2·3	5·0	6·5	6·7	6·0	4·3	2·4	1·5	1·8	2·4
15	1·3	0·8	+0·6	+1·3	+1·2	+0·1	2·4	6·0	6·4	5·5	3·8	1·7	1·4	1·9	2·4
16†	1·9	1·8	0·6	0·3	0·5	2·0	3·3	4·4	5·0	4·8	3·8	2·8	2·3	2·3	2·5
17†	1·9	1·7	1·1	0·9	1·6	2·1	3·1	4·4	4·4	3·9	3·1	2·2	2·0	2·3	2·3
18	1·5	1·2	0·4	0·8	1·6	2·7	3·6	4·0	4·2	4·0	3·0	2·0	2·0	2·5	2·7
19	1·8	1·4	0·6	0·7	1·6	2·3	3·2	4·5	5·3	5·0	3·5	2·1	1·9	2·4	2·5
20	1·5	1·1	+0·2	+0·3	0·3	1·9	3·5	4·8	5·2	4·5	3·4	3·0	2·7	2·7	2·5
21	1·6	1·1	0·2	0·0	1·2	2·5	3·4	3·8	4·4	3·6	2·5	1·8	1·8	2·3	2·5
22†	1·9	1·7	0·7	0·4	1·0	1·7	3·7	5·3	5·4	4·4	3·1	1·8	1·7	2·4	2·7
23†	2·2	1·6	0·7	0·4	1·0	1·8	3·1	3·9	3·8	3·2	2·3	1·7	1·7	2·2	2·3
24†	2·3	1·7	0·6	0·2	0·9	3·2	5·2	7·4	7·2	5·4	3·7	1·9	1·3	1·7	1·9
25	2·5	1·6	0·3	0·0	0·8	2·1	3·6	4·8	5·1	4·3	3·2	2·1	1·9	2·5	2·1
26	2·0	1·2	+0·5	+0·7	0·1	1·9	4·2	5·3	5·4	4·2	2·5	1·0	1·1	2·0	2·2
27	2·0	1·5	0·7	0·7	2·0	3·9	6·3	7·3	6·6	5·3	3·9	2·9	2·7	2·7	2·8
28	2·2	1·8	0·8	0·2	0·8	2·4	3·5	4·4	4·9	3·7	2·6	2·2	2·2	2·4	2·4
29	2·3	1·9	1·4	1·2	1·9	3·1	4·5	5·6	5·3	4·1	2·9	2·3	1·9	1·9	2·1
30	2·2	1·9	0·6	0·0	0·7	2·2	3·6	4·7	5·0	4·3	3·3	3·0	2·8	3·0	2·9
Mean	1·6	1·0	+0·1	+0·3	0·8	2·3	3·9	5·1	5·3	4·4	3·2	2·1	1·7	2·0	2·2
Mean†	2·0	1·7	0·7	0·4	1·0	2·2	3·7	5·1	5·2	4·3	3·2	2·1	1·8	2·2	2·3

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1†	2·5	2·3	1·6	1·3	1·4	1·1	2·4	4·6	4·6	3·7	3·1	2·9	2·7	2·6	2·7
2	2·9	2·9	2·0	0·8	0·5	0·8	2·0	3·7	4·4	4·2	3·7	3·1	2·8	2·5	2·2
3	2·3	2·7	2·1	1·0	0·8	1·1	2·2	3·6	4·0	3·5	2·9	2·6	2·4	2·5	2·4
4†	2·5	2·5	1·3	0·9	1·4	3·1	3·8	4·7	4·9	4·1	3·3	2·5	2·5	2·6	2·6
5	2·7	2·4	1·3	0·9	1·1	2·4	3·6	5·0	5·2	4·8	3·5	3·3	3·4	3·4	3·2
6	3·1	3·0	1·6	0·6	1·0	3·1	4·2	4·4	4·0	3·2	2·4	2·2	2·4	2·8	2·8
7	2·6	2·5	2·1	2·0	2·1	2·9	3·8	4·2	4·0	2·7	1·5	1·3	1·9	2·2	1·3
8	1·9	1·9	0·9	+0·1	0·5	1·9	2·6	3·3	3·0	1·6	1·2	1·4	1·9	2·2	2·5
9	2·8	2·7	2·0	1·6	1·8	3·0	3·9	4·6	4·9	4·5	3·3	2·5	2·5	2·9	2·8
10	1·8	1·8	0·9	0·4	1·2	2·4	3·3	3·7	3·7	3·0	1·6	1·3	1·8	1·7	2·3
11	2·8	2·7	2·4	2·1	2·0	2·0	3·2	3·5	3·1	2·4	2·2	1·8	2·2	2·8	2·6
12	2·5	2·1	1·2	0·4	0·2	1·1	2·2	3·4	3·9	3·7	3·0	0·0	0·5	+0·8	0·2
13	2·4	2·0	2·0	1·2	1·0	2·0	2·7	2·3	3·1	2·7	2·0	1·6	1·6	1·4	1·7
14	1·6	1·0	0·2	0·2	0·7	2·3	3·5	3·7	3·2	3·1	2·3	2·0	2·5	2·7	2·3
15	2·0	1·7	0·3	+0·1	0·3	1·8	3·0	3·8	4·0	2·9	2·0	1·8	1·7	2·1	2·2
16	2·3	2·0	1·4	1·0	1·1	2·0	3·1	3·8	3·9	3·2	2·5	2·3	2·9	3·2	2·9
17†	2·8	2·5	1·8	1·2	1·5	2·3	3·0	3·6	3·7	3·6	2·9	1·9	2·0	2·6	2·5
18	2·6	2·5	2·0	1·3	1·5	2·9	4·5	5·1	4·8	4·5	3·8	3·0	2·9	3·0	2·9
19	2·7	2·6	1·5	0·5	0·9	1·9	3·1	4·1	3·7	2·8	1·7	1·7	2·0	2·7	2·7
20	2·9	3·0	2·6	1·7	1·5	2·4	3·7	4·1	3·5	2·6	1·9	1·9	2·4	2·9	2·8
21†	3·0	2·8	2·2	1·9	2·0	2·9	4·2	4·2	3·5	2·8	2·1	2·0	2·5	2·7	2·5
22	2·9	2·7	2·2	1·7	1·2	2·2	3·5	4·1	3·7	1·9	0·6	1·2	2·1	3·3	3·0
23	3·5	4·3	3·3	2·6	1·5	1·0	2·0	1·7	1·8	2·0	1·0	0·8	1·7	1·2	1·3
24	2·8	2·9	2·4	1·8	1·4	1·5	2·1	2·2	2·0	1·4	1·3	1·7	2·3	2·3	2·0
25	2·2	2·2	1·5	1·2	1·7	2·9	3·9	4·1	3·3	2·3	2·0	2·1	2·3	2·1	2·3
26	2·5	2·2	1·5	1·3	2·0	2·9	3·5	3·3	2·5	2·2	2·2	1·9	1·9	1·4	2·1
27	2·3	2·2	2·3	2·3	2·6	4·1	5·1	4·9	3·8	3·1	2·2	1·5	1·7	1·9	2·3
28	2·2	2·0	1·7	1·2	1·1	1·6	2·0	2·0	1·7	1·7	1·5	1·5	1·8	2·3	2·3
29	2·5	2·3	2·0	1·5	1·6	2·2	2·9	3·1	2·7	2·7	2·6	2·4	2·6	2·8	2·7
30	2·2	2·2	2·0	1·4	1·5	2·6	3·6	4·1	3·7	3·5	3·2	2·9	2·8	2·8	2·8
31†	2·1	2·4	2·4	2·5	3·1	4·2	5·1	3·4	3·3	2·8	2·9	2·7	2·7	2·6	2·4
Mean	2·5	2·4	1·8	1·2	1·4	2·3	3·3	3·7	3·6	3·0	2·3	2·0	2·2	2·4	2·4
Mean†	2·6	2·5	1·9	1·6	1·9	2·7	3·7	4·1	4·0	3·4	2·9	2·4	2·5	2·6	2·5

† Five international quiet days.
‡ The figures preceded by '+' sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Hours.									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
0·8	0·8	1·4	1·6	1·8	2·0	1·9	1·9	2·1	**1·5**	2 45	+1·5	7 45	4·6	1
1·4	1·5	1·7	2·0	2·1	2·1	2·0	1·8	1·6	2·1	2 9	+0·7	7 33	5·8	2
1·9	1·9	2·2	2·2	2·2	2·2	1·9	1·9	1·7	2·3	2 17	+0·8	7 41	5·8	3
0·8	1·0	1·1	1·2	1·7	2·0	2·3	2·1	1·7	1·5	2 53	+1·1	7 53	4·5	4
2·4	2·3	2·3	2·2	1·9	1·9	1·6	1·5	1·4	2·1	2 47	+0·9	7 25	5·8	5
2·5	2·7	3·3	3·0	2·5	2·1	1·6	1·5	1·6	2·2	2 45	+0·9	8 15	4·9	6
2·7	2·6	2·2	1·9	1·8	1·8	1·4	1·1	1·1	1·9	2 21	+0·9	8 9	5·4	7
3·5	3·1	2·4	2·1	1·9	1·7	1·6	1·5	1·1	2·7	1 53	+0·5	6 29	7·3	8
2·3	1·9	1·9	1·9	2·1	1·8	1·4	1·7	1·6	2·2	2 33	+0·8	7 39	6·6	9
1·2	2·2	2·7	2·5	1·9	1·2	1·2	1·5	1·0	1·8	2 33	+1·9	7 41	5·0	10
2·1	1·8	1·7	2·0	1·5	1·3	1·6	1·5	1·5	1·9	2 45	+2·3	8 35	6·4	11
2·2	2·2	2·2	2·1	1·8	1·7	1·8	1·7	1·6	2·1	3 5	**+2·4**	7 57	6·4	12
2·1	2·1	1·9	2·0	1·9	1·9	1·6	1·3	1·2	1·9	3 9	+0·7	7 29	5·1	13
2·4	2·5	2·5	2·4	2·2	1·9	1·7	1·9	1·4	2·4	2 53	+1·3	8 5	6·8	14
2·3	2·5	2·7	2·5	2·3	2·1	2·1	2·0	1·9	2·1	2 45	+1·8	7 39	6·7	15
2·6	2·6	2·5	2·4	2·2	2·0	2·0	1·9	2·0	2·5	2 49	0·1	8 15	5·3	16†
2·2	2·2	2·3	2·4	2·1	2·0	1·8	1·8	1·7	2·3	2 39	0·7	7 37	4·7	17†
2·7	2·6	2·5	2·3	2·2	2·0	1·9	1·7	1·6	2·3	2 25	0·3	8 41	4·5	18
2·5	2·5	2·4	2·3	2·1	2·1	1·9	1·9	1·8	2·4	2 25	0·5	8 25	5·9	19
2·6	2·4	2·2	2·1	2·1	1·9	1·9	1·9	1·8	2·3	2 43	+0·4	8 17	5·4	20
2·7	2·6	2·4	2·2	2·1	2·0	2·0	1·7	1·7	2·2	2 45	+0·1	8 5	4·6	21
2·6	2·5	2·4	2·3	2·2	2·2	2·1	2·1	2·2	2·4	2 57	0·2	7 43	5·9	22†
2·5	2·8	2·6	2·5	2·5	2·3	2·1	2·1	2·2	2·2	3 13	0·3	7 17	4·1	23†
2·3	2·3	2·4	2·3	2·2	2·3	2·3	2·4	2·5	2·7	3 5	0·1	7 33	7·7	24†
2·0	2·5	2·5	2·4	2·4	1·8	1·7	1·9	2·4	2·3	3 1	+0·1	8 17	5·5	25
2·0	2·2	2·4	2·3	2·2	2·1	1·9	2·1	2·2	2·1	2 57	+0·9	7 49	5·7	26
2·8	2·6	2·5	2·2	1·8	1·7	1·5	1·7	1·9	**2·9**	2 37	0·5	7 5	7·4	27
2·4	2·3	2·3	2·4	2·2	2·1	1·9	2·1	2·2	2·3	3 9	0·1	8 5	5·1	28
2·0	1·8	1·5	1·9	1·8	1·8	1·7	2·0	2·4	2·5	2 49	1·0	7 33	5·9	29
2·6	2·3	1·8	1·5	1·3	1·2	1·2	1·4	2·1	2·3	3 5	+0·1	7 41	5·1	30
2·2	2·3	2·2	2·2	2·0	1·9	1·8	1·8	1·8	2·2					Mean.
2·4	2·5	2·4	2·4	2·2	2·2	2·1	2·1	2·1	2·4					Mean.†

OCTOBER.

2·5	2·5	2·5	2·3	2·3	2·2	2·3	2·5	2·7	2·6	3 21	1·3	7 25	5·0	1†
2·4	2·4	2·3	2·0	2·1	2·2	2·4	2·3	2·1	2·4	3 29	0·3	8 15	4·7	2
2·4	2·4	2·4	2·2	2·2	2·1	2·1	2·2	2·4	2·4	3 29	0·7	7 49	4·1	3
2·7	2·6	2·5	2·5	2·3	2·3	2·3	2·4	2·5	2·7	3 9	0·8	7 25	5·2	4†
3·0	3·0	2·8	2·5	2·3	2·1	2·8	2·6	2·9	**2·9**	3 21	0·7	8 9	5·4	5
2·7	2·5	2·5	2·4	2·2	2·3	2·4	2·4	2·5	2·6	3 21	0·4	6 51	4·8	6
1·8	1·9	1·9	1·5	1·1	0·9	0·9	0·9	1·5	2·1	14 5	0·7	7 13	4·7	7
2·6	2·5	2·5	2·5	2·5	2·3	2·5	2·4	2·6	2·1	2 49	+0·7	7 37	3·7	8
2·5	2·4	2·1	1·9	1·8	1·6	1·3	0·9	1·6	2·6	22 9	0·5	7 37	5·0	9
2·7	2·5	2·3	2·4	2·3	2·3	2·4	2·6	2·9	2·2	2 41	+0·1	8 45	4·7	10
2·6	2·6	2·4	2·2	2·3	2·2	2·1	2·3	2·4	2·5	11 13	1·7	6 45	3·8	11
0·4	0·2	0·0	1·5	1·8	1·1	0·5	2·1	3·2	**1·4**	13 11	**+2·3**	23 21	4·7	12
2·2	2·4	1·4	1·7	1·6	1·4	1·3	1·5	1·6	1·9	3 23	0·1	5 45	3·5	13
2·3	2·5	2·4	2·3	2·3	2·0	1·9	1·8	2·0	2·1	2 41	0·1	7 9	3·9	14
2·3	2·5	2·3	2·3	2·4	2·3	2·3	2·3	2·5	2·5	2 49	+0·2	7 45	4·3	15
2·7	2·6	2·6	2·5	2·3	2·2	2·2	2·3	2·6	2·5	2 45	0·9	8 1	4·1	16
2·3	2·4	2·5	2·4	2·1	2·1	2·1	2·3	2·5	2·4	2 53	1·1	7 29	3·8	17†
2·6	2·7	2·6	2·5	2·4	2·5	2·5	2·5	2·6	2·8	3 31	1·1	7 5	5·2	18
2·6	2·6	2·6	2·4	2·2	2·1	2·3	2·4	2·6	2·3	3 9	0·4	7 5	4·3	19
2·7	2·6	2·4	2·1	2·0	2·3	2·6	2·7	2·8	2·6	3 19	1·3	6 45	4·2	20
2·5	2·5	2·3	2·2	2·2	2·2	2·4	2·5	2·6	2·6	2 43	1·8	6 57	4·5	21†
3·0	2·2	1·9	2·1	2·2	2·6	2·8	2·8	3·2	2·5	10 9	+0·7	6 41	**5·5**	22
1·3	1·3	1·5	2·1	2·0	2·0	2·9	2·5	2·3	2·0	10 37	0·0	1 5	4·7	23
1·9	2·1	2·2	2·0	1·5	1·7	2·3	2·4	2·3	2·0	4 9	0·9	1 5	3·0	24
2·4	2·4	2·2	2·1	2·3	2·1	2·1	2·5	2·3	2·4	3 9	1·0	6 49	4·2	25
2·5	2·5	2·3	2·3	2·1	2·2	1·9	2·2	2·2	2·2	12 55	1·0	6 9	3·8	26
2·4	2·6	2·6	2·4	2·2	2·1	2·1	2·0	2·2	2·6	11 15	1·3	6 29	5·4	27
2·4	2·4	2·7	2·4	2·5	2·5	2·5	2·4	2·5	2·0	3 45	1·0	17 9	2·9	28
2·6	2·7	2·8	2·6	2·3	2·2	2·3	2·1	2·1	2·4	3 33	1·2	6 37	3·3	29
2·7	2·8	2·7	2·4	2·3	2·1	2·0	2·2	2·1	2·6	2 53	1·2	7 9	4·2	30
2·4	2·5	2·5	2·3	2·3	2.3	2·1	2·1	2·2	2·7	2 47	2·0	6 19	5·5	31†
2·4	2·4	2·3	2·2	2·1	2·1	2·1	2·2	2·4	2·4					Mean.
2·5	2·5	2·5	2·3	2·2	2·2	2·3	2·3	2·5	2·6					Mean.†

* See footnote on page 89.
† Five international quiet days.
‡ The figures preceded by ' + ' sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	2·2	2·6	2·4	2·0	2·1	2·6	3·5	3·7	2·8	2·5	2.1	2·1	2·4	2·5	2·4
2†	2·5	2·6	2·6	2·2	2·1	3·3	4·7	4·7	3·9	3·3	2·8	2·1	2·6	2·7	2·4
3	2·5	2·7	2·5	2·1	2·1	2·2	2·6	2·5	2·1	1·8	1·9	2·2	2·7	3·0	2·7
4	2·6	2·7	2·8	2·3	1·8	2·3	3·1	2·7	2·2	1·9	1·7	2·1	2·8	2·9	2·6
5	2·3	2·3	2·3	2·3	2·3	3·1	3·6	3·5	3·1	3·0	2·9	2·7	2·8	2·7	2·6
6	3·1	3·1	2·7	1·8	1·2	0·7	2·1	2·8	2·6	2·5	2·8	3·1	3·2	3·0	2·7
7†	3·0	3·0	3·1	3·0	2·7	2·7	3·0	3·4	3·2	2·9	2·9	2·8	2·8	2·8	2·8
8	3·3	3·5	3·1	2·2	1·5	1·7	3·5	3·5	2·8	2·3	2·7	2·7	3·0	3·1	2·8
9	2·7	2·9	2·5	1·7	1·3	1·8	2·2	1·8	1·1	1·1	1·6	2·0	3·1	3·2	2·9
10	3·5	3·5	3·4	2·9	2·5	2·5	2·9	3·1	2·5	1·7	1·7	2·0	2·5	2·9	2·7
11	3·2	3·2	2.7	2·1	1·7	2·3	3·2	3·3	2·5	1·8	2·1	2·5	2·8	3·1	2·8
12	3·3	3·3	3·1	2·3	2·4	3·3	4·9	5·4	4·6	3·5	2·7	2·2	2·4	2·8	2·6
13	2·6	2·9	3·1	2·7	3·2	3·8	4·0	4·3	3·8	3·3	3·0	2·7	2·9	3·3	3·0
14†	2·9	3·1	2·9	1·9	1·3	1·2	1·8	2·4	3·0	2·8	2·8	2·9	3·1	3·1	2·8
15	3·1	3·3	3·8	3·3	3·3	4·0	4·6	4·5	4·1	3·3	3·1	3·0	3·0	3·0	2·7
16	3·0	3·0	3·2	3·2	2·9	2·8	2·8	2·5	1·5	1·7	2·1	2·5	3·0	3·1	2·9
17	3·3	3·3	3·8	3·5	3·0	3·5	4·1	3·7	3·1	2·5	2·6	2·7	3·1	3·1	2·8
18	3·0	3·1	3·1	2·7	2·0	2·2	2·6	2·6	2·0	1·5	2·1	3·0	3·2	3·2	2·6
19	2·8	3·7	3·7	3·4	3·0	3·1	3·0	2·5	1·6	1·4	1·6	2·1	2·8	3·0	2·7
20	2·7	2·8	2·9	2·5	2·3	2·8	2·9	2·6	2·4	2·4	2·3	2·3	3·0	3·1	2·8
21	3·0	3·4	3·5	2·8	2·4	2·5	2·8	2·3	2·0	2·1	2·2	2·4	3·1	3·1	2·7
22†	2·8	2·7	2·9	2·6	2·6	2·3	2·2	2·3	2·3	2·4	2·6	2·8	3·2	3·1	2·8
23	3·0	3·1	3·0	2·3	2·1	3·1	3·3	3·6	3·4	3·3	3·0	3·1	3·3	3·4	3·1
24	3·2	3·1	3·0	2·5	2·3	2·9	3·9	4·4	4·1	3·9	3·4	3·1	3·1	3·0	2·7
25†	2·9	2·9	2·5	2·2	1·8	2·0	2·4	2·4	2·3	2·3	2·4	2·6	2·7	2·9	2·8
26	3·1	3·2	3·5	3·5	4·0	3·9	3·7	3·8	3·4	2·9	3·0	2·8	3·0	3·0	2·9
27	3·1	3·2	3·4	2·9	3·0	3·7	4·4	4·1	3·4	2·4	1·9	2·0	2·5	2·9	3·0
28	3·4	3·3	3·4	3·4	3·4	3·2	3·8	4·0	3·2	2·9	2·9	2·7	2·7	2·7	2·5
29	3·5	3·8	3·7	3·0	1·9	1·7	2·1	2·9	3·2	3·4	3·3	2·9	2·8	3·1	2·8
30	3·2	3·7	4·4	4·1	3·4	3·4	3·0	2·8	2·4	2·1	2·2	2·3	2·9	2·7	2·7
Mean .	3·0	3·1	3·1	2·6	2·4	2·7	3·2	3·3	2·8	2·5	2·5	2·6	2·9	3·0	2·7
Mean† .	2·8	2·9	2·8	2·4	2·1	2·3	2·8	3·0	2·9	2·7	2·7	2·7	2·9	2·9	2·7

DECEMBER.

1	2·7	3·0	3·6	3·7	4·1	4·6	4·9	5·4	5·6	4·8	4·4	3·5	3·3	2·9	2·7
2	3·5	3·6	3·6	3·0	2·8	2·7	2·7	2·5	1·9	2·0	2·4	2·3	3·1	3·1	2·7
3	3·1	3·1	3·4	3·1	2·7	2·2	2·5	3·1	2·6	2·2	2·3	2·8	2·9	2·8	2·7
4†	3·1	3·1	3·4	3·4	3·2	3·1	3·3	3·3	2·9	2·3	2·4	2·6	2·9	2·8	2·9
5	3·2	3·1	3·6	3·5	3·1	3·6	4·0	4·0	3·3	3·1	3·5	3·5	3·3	3·1	2·5
6	3·3	3·5	3·6	3·4	3·3	3·1	3·4	3·1	2·5	2·0	2·5	2·5	2·9	3·0	2·9
7	3·1	3·1	3·5	3·5	3·3	3·6	3·6	3·7	3·7	3·5	3·4	3·3	3·1	2·7	2·7
8	3·2	3·1	3·2	2·9	2·4	2·4	3·2	3·7	3·3	3·2	2·9	3·0	3·4	3·3	3·0
9	2·7	3·0	2·9	2·9	2·7	2·9	3·2	2·7	2·1	1·8	1·9	2·3	2·6	2·6	2·3
10	3·3	3·3	3·7	3·6	2·9	3·7	4·4	3·7	2·5	1·3	1·1	1·9	2·6	2·6	2·7
11	3·2	3·3	3·2	2·3	1·8	2·7	3·1	2·8	1·9	2·2	2·8	3·1	3·1	3·2	2·9
12	3·1	3·2	3·1	2·9	2·7	2·7	2·9	3·1	2·8	2·4	2·2	2·4	2·7	3·2	3·0
13	3·6	3·7	3·5	3·1	2·7	3·6	4·4	4·7	3·7	3·3	2·9	2·2	2·5	2·7	2·0
14	3·8	3·8	4·3	4·1	3·0	2·9	3·7	3·2	2·1	1·6	1·7	1·9	2·2	2·5	2·5
15	3·3	3·3	3·0	2·3	1·8	3·2	3·5	3·4	3·0	2·8	2·1	2·0	2·5	2·3	2·1
16	3·1	3·0	3·2	3·1	2·6	3·2	4·1	4·4	3·9	3·4	3·1	2·4	2·6	2·9	2·7
17	3·0	2·9	2·7	1·9	1·7	2·5	3·1	3·5	3·2	2·9	2·5	1·9	2·0	1·5	1·3
18	3·1	3·1	2·4	1·7	1·7	2·6	2·8	2·7	2·4	1·8	1·4	1·6	1·5	1·4	1·3
19	4·8	5·1	4·4	3·1	2·2	2·5	2·6	2·8	2·7	2·4	2·6	2·8	3·0	2·8	2·9
20†	3·1	3·3	3·3	2·8	3·5	2·7	3·2	3·4	2·9	3·1	2·7	2·5	2·7	2·9	2·7
21†	3·3	3·3	3·4	2·6	1·7	2·3	3·1	3·2	2·5	2·9	3·2	2·9	3·1	3·3	2·9
22	3·4	3·5	3·9	2·7	2·1	2·5	3·2	3·5	3·2	2·9	2·5	2·5	2·9	3·1	2·7
23	3·4	3·6	3·6	2·5	1·7	2·5	3·4	3·6	2·8	2·4	2·6	2·9	3·2	3·2	3·0
24†	3·3	3·6	3·4	2·7	1·9	2·1	3·1	3·2	2·8	2·7	3·0	3·2	3·5	3·3	3·1
25	3·8	4·0	3·9	3·2	2·7	3·6	4·5	4·9	4·4	3·9	3·6	3·3	3·4	3·3	3·1
26	3·6	3·7	3·3	2·1	1·5	1·8	2·7	3·1	2·6	2·7	2·6	2·2	2·3	2·8	2·6
27†	3·3	3·3	3·0	2·3	1·9	3·4	4·4	4·8	4·4	3·5	2·9	2·7	3·0	3·5	3·3
28	3·8	3·7	3·4	2·3	1·3	2·7	3·5	3·6	3·7	3·7	3·3	2·5	2·6	3·2	3·0
29	3·2	3·1	3·0	2·7	2·5	2·8	3·8	4·3	4·0	3·6	3·1	2·7	2·8	2·8	2·8
30	3·4	3·2	3·0	2·4	2·1	3·9	4·5	4·7	4·4	4·4	3·8	2·7	2·5	3·0	2·9
31	3·3	3·1	3·4	2·8	1·8	3·2	4·9	4·9	5·2	4·5	3·0	2·2	2·5	2·8	2·7
Mean .	3·3	3·4	3·4	2·9	2·4	2·9	3·5	3·7	3·2	2·9	2·7	2·6	2·8	2·9	2·7
Mean† .	3·2	3·3	3·3	2·8	2·5	2·7	3·4	3·6	3·1	2·9	2·9	2·8	3·0	3·2	3·0

† Five international quiet days.

‡ The figures preceded by + sign indicate *easterly* declination and the rest *westerly* declination.

(Averages for periods of sixty minutes centered at the full hours of Greewich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Hours (G.M.T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
2·4	2·5	2·4	2·4	2·4	2·4	2·4	2·4	2·5	2·5	3 9	1·8	6 25	4·1	1
2·5	2·5	2·5	2·3	2·3	2·4	2·4	2·5	2·6	2·8	3 49	2·0	6 29	5·1	2†
2·3	2·5	2·4	2·3	2·3	2·3	2·3	2·3	2·5	**2·4**	8 49	1·7	12 37	3·1	3
2·6	2·6	2·6	2·7	2·7	2·6	2·3	2·3	2·2	2·4	4 33	1·6	6 9	3·4	4
2·6	2·8	2·8	2·7	2·7	2·7	3·0	3·1	3·1	2·8	3 5	2·2	5 53	4·0	5
2·6	2·6	2·6	2·5	2·6	2·6	2·7	2·8	3·0	2·6	4 28	**0·6**	12 21	3·4	6
2·8	2·8	2·8	2·7	2·5	2·6	2·6	2·7	3·0	2·9	4 13	2·4	7 5	3·7	7†
2·7	2·7	2·7	2·5	2·5	2·4	2·5	2·7	2·7	2·7	4 9	1·3	6 29	4·0	8
2·9	2·9	3·1	3·1	2·9	3·2	3·1	3·3	3·6	2·5	8 37	0·7	12 57	3·7	9
2·9	2·9	3·1	2·7	2·7	2·7	2·9	2·9	3·2	2·7	10 9	1·6	1 37	3·8	10
2·9	3·1	3·1	2·9	2·9	2·9	2·9	3·0	3·2	2·7	9 9	1·6	6 37	3·8	11
2·6	2·6	2·4	2·3	2·3	2·3	2·3	2·4	2·5	2·9	3 25	2·1	7 5	**5·7**	12
2·9	2·9	3·1	2·9	2·9	2·9	2·9	2·9	2·9	3·1	11 25	2·5	7 5	4·5	13
2·8	2·9	3·1	3·0	2·9	2·9	2·9	2·9	2·9	2·7	4 27	1·0	12 41	3·4	14†
2·7	2·7	2·7	2·7	2·7	2·7	2·7	2·9	2·9	3·2	14 9	2·6	6 9	4·8	15
2·9	3·0	3·0	2·9	3·0	3·0	3·1	3·2	3·1	2·8	8 9	1·4	23 23	3·5	16
2·8	2·8	2·8	2·8	2·8	2·9	2·9	3·0	3·1	3·1	9 41	2·4	6 37	4·2	17
2·9	2·9	2·6	2·0	1·7	2·0	2·2	2·6	2·5	2·5	9 9	1·4	11 45	3·6	18
2·9	2·7	2·6	2·6	2·5	2·3	2·1	2·2	2·3	2·6	8 41	1·2	1 37	4·3	19
2·9	2·7	2·5	2·4	2·4	2·5	2·5	2·8	2·8	2·7	3 21	2·1	14 45	3·5	20
2·9	2·8	2·5	2·4	2·3	2·4	2·5	2·4	2·4	2·6	8 9	1·9	1 57	4·1	21
2·8	2·7	2·8	2·6	2·6	2·6	2·6	2·7	2·8	2·6	6 5	2·1	12 9	3·3	22†
3·0	3·1	3·1	2·9	2·9	2·9	2·8	3·0	3·0	3·0	3 45	1·9	6 45	3·8	23
2·8	2·9	2·7	2·6	2·5	2·6	2·6	2·8	2·8	3·0	3 45	2·1	6 59	4·7	24
3·0	3·1	3·1	3·0	2·9	2·9	2·9	3·0	3·1	2·7	4 27	1·7	23 21	3·4	25†
2·9	3·1	3·0	2·9	2·8	2·9	2·8	2·8	3·1	**3·2**	23 41	2·7	4 59	4·1	26
3·1	3·0	3·1	2·9	2·5	2·4	2·4	2·9	3·3	3·0	10 9	1·8	6 29	4·5	27
2·5	2·7	2·9	2·9	2·7	2·9	3·0	3·2	3·1	3·1	14 45	2·4	6 45	4·3	28
2·8	2·3	2·4	2·3	2·1	2·2	2·4	2·7	2·8	2·7	4 29	1·5	1 37	4·1	29
2·7	2·6	2·4	2·3	2·3	2·1	2·1	2·4	2·7	2·8	20 47	1·6	2 21	4·6	30
2·8	2·8	2·8	2·6	2·6	2·6	2·6	2·8	2·9	2·8					Mean.
2·8	2·8	2·8	2·7	2·7	2·7	2·7	2·8	2·9	2·7					Mean.†

DECEMBER.

2·7	2·8	2·7	2·8	2·7	2·6	2·5	2·7	3·0	3·5	20 39	2·4	7 41	5·7	1
2·6	2·7	2·8	2·8	2·7	2·8	2·5	2·7	2·9	2·8	8 5	1·7	0 21	3·8	2
2·5	2·8	2·9	2·8	2·8	2·9	3·0	**3·1**	3·1	2·8	9 29	2·1	2 5	3·6	3
2·7	2·7	2·7	2·8	2·8	2·7	2·7	2·9	2·9	2·9	9 9	2·2	2 9	3·6	4†
2·6	2·7	2·7	2·6	2·6	2·8	2·9	3·1	3·3	3·2	14 13	2·3	6 9	4·3	5
2·5	2·5	2·7	2·7	2·4	2·5	2·7	2·9	3·1	2·9	15 41	1·8	1 45	3·7	6
2·7	2·9	3·0	2·9	2·9	2·9	2·9	2·9	3·2	**3·8**	14 5	2·6	7 41	4·1	7
3·0	2·9	2·9	2·8	2·8	2·5	2·5	2·4	2·4	2·9	4 41	2·1	7 5	3·8	8
2·7	3·1	3·1	2·7	2·5	2·5	2·7	3·0	3·1	2·7	9 17	1·7	23 58	3·5	9
2·9	3·0	2·9	2·7	2·7	2·6	2·6	2·8	3·0	2·9	9 37	1·0	6 21	4·8	10
3·0	3·2	3·2	3·1	3·1	3·0	3·2	3·1	3·3	2·9	4 9	1·6	1 5	3·5	11
3·0	3·1	3·2	3·0	3·0	3·1	3·2	3·3	3·4	3·0	10 9	2·1	23 57	3·8	12
0·9	1·8	1·8	1·9	1·8	2·3	3·2	3·6	4·0	2·9	14 35	**+0·3**	6 53	4·8	13
2·7	3·0	3·0	2·8	2·9	3·0	3·1	3·1	3·2	2·9	8 41	1·4	0 47	4·7	14
2·5	2·6	2·8	3·1	3·0	3·0	3·0	2·9	3·0	2·8	10 9	1·7	0 11	4·0	15
2·5	2·6	2·7	3·0	3·2	3·1	3·1	3·1	3·0	3·1	11 45	1·9	6 53	4·5	16
2·1	2·5	2·7	2·7	3·2	3·2	3·1	2·9	3·0	2·6	13 37	0·6	19 21	3·7	17
1·8	1·4	1·8	2·1	2·8	3·2	3·2	3·4	4·1	**2·3**	14 5	0·7	23 59	4·9	18
2·8	2·9	2·7	2·7	2·7	2·7	2·7	2·8	2·8	2·9	3 57	1·9	1 27	**6·2**	19
2·7	2·7	2·7	2·8	2·9	2·9	3·0	3·1	3·2	2·9	11 13	2·3	1 53	3·6	20†
2·9	3·1	2·9	3·1	3·2	3·3	3·3	3·4	3·3	3·0	4 30	1·4	6 29	3·5	21†
2·7	3·0	3·1	3·2	3·2	3·3	3·2	3·1	3·2	3·0	4 9	1·8	2 5	4·0	22
3·2	3·3	3·3	3·2	3·1	3·2	3·3	3·4	3·4	3·1	3 57	1·5	6 33	3·9	23
3·2	3·3	3·3	3·3	3·0	3·2	3·2	3·3	3·7	3·1	4 29	1·7	23 58	3·9	24†
3·1	3·1	3·4	3·4	3·4	3·4	3·3	3·4	3·7	3·6	4 9	2·5	7 1	5·0	25
2·7	3·2	3·2	3·2	3·2	3·2	3·2	3·4	3·4	2·9	4 21	1·3	1 33	4·0	26
3·3	3·5	3·6	3·5	3·5	3·5	3·6	3·7	3·7	3·4	4 9	1·8	7 9	4·9	27†
3·5	3·5	3·4	3·4	3·0	2·7	2·2	2·3	2·7	3·0	3 53	1·2	0 37	3·9	28
2·6	2·8	3·0	3·1	3·1	3·2	3·1	3·3	3·4	3·1	4 32	2·3	6 45	4·6	29
2·9	3·0	3.1	3·1	3·0	3·1	3·1	3·2	3·3	3·3	4 1	2·0	6 49	4·8	30
2·7	2·9	3·1	3·1	3·1	3·1	3·2	3·3	3·3	3·3	4 9	1·7	8 17	5·5	31
2·7	2·9	2·9	2·9	2·9	2·9	3·0	3·1	3·2	3·0					Mean.
3·0	3·1	3·1	3·1	3·1	3·1	3·1	3·3	3·3	3·1					Mean.†

* See footnote on page 89.

† Five international quiet days.

‡ The Figures preceded by ' + ' sign indicate *easterly* declination and the rest *westerly* declination.

JANUARY. (Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.) 36000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1095	1098	1097	1097	1097	1100	1105	1103	1111	1124	1121	1115	1106	1110	1099
2	1099	1096	1094	1099	1099	1095	1105	1108	1099	1092	1087	1081	1083	1085	1085
3	1100	1104	1115	1123	1130	1132	1128	1122	1119	1117	1114	1108	1106	1105	1104
4	1108	1114	1121	1125	1131	1127	1129	1117	1102	1088	1081	1081	1080	1077	1083
5	1084	1097	1108	1125	1139	1146	1147	1141	1137	1123	1123	1101	1086	1074	1084
6	1092	1098	1105	1120	1130	1143	1145	1138	1123	1115	1114	1102	1102	1098	1095
7	1101	1107	1118	1129	1142	1152	1152	1138	1115	1101	1097	1040	989	998	1024
8	1043	1028	1025	1041	1055	1067	1066	1066	1054	1047	1046	1046	1052	1059	1058
9†	1067	1070	1077	1084	1089	1099	1102	1102	1095	1090	1083	1077	1076	1076	1076
10†	1082	1084	1091	1095	1097	1108	1118	1122	1121	1116	1109	1104	1098	1094	1091
11	1105	1109	1111	1108	1103	1109	1115	1110	1106	1102	1101	1094	1077	1071	1075
12	1085	1086	1090	1093	1092	1099	1111	1117	1110	1103	1106	1098	1096	1086	1061
13	1081	1083	1088	1096	1112	1123	1125	1124	1116	1102	1100	1101	1096	1088	1077
14	1085	1090	1093	1100	1103	1097	1094	1095	1091	1090	1095	1094	1093	1096	1098
15	1102	1108	1115	1127	1140	1147	1139	1126	1115	1103	1094	1089	1095	1092	1087
16	1101	1105	1111	1117	1129	1131	1130	1132	1133	1123	1111	1103	1103	1105	1097
17	1103	1110	1119	1129	1136	1148	1140	1124	1121	1113	1107	1098	1086	1087	1087
18	1103	1110	1119	1131	1135	1141	1139	1123	1107	1094	1094	1092	1084	1079	1081
19	1099	1104	1114	1119	1126	1130	1135	1123	1112	1099	1094	1082	1075	1088	1093
20	1099	1103	1108	1117	1124	1128	1131	1129	1121	1112	1109	1098	1094	1096	1099
21†	1102	1103	1109	1120	1127	1136	1143	1138	1125	1113	1105	1100	1095	1095	1097
22†	1109	1112	1119	1129	1139	1156	1165	1163	1153	1142	1133	1126	1118	1113	1111
23†	1111	1114	1121	1121	1131	1150	1161	1157	1150	1139	1129	1120	1115	1111	1111
24	1119	1122	1125	1138	1152	1180	1196	**1202**	1188	1179	1159	1146	1142	1136	1121
25	1149	1142	1148	1152	1146	1158	1163	1160	1149	1132	1107	1100	1097	1097	1098
26	1088	1095	1105	1096	1084	1078	1075	1089	1100	1100	1088	1079	1078	1085	1087
27	1088	1092	1097	1107	1114	1121	1129	1130	1123	1117	1110	1106	1103	1099	1095
28	1100	1101	1103	1107	1108	1117	1123	1130	1132	1129	1119	1112	1103	1100	1097
29	1110	1102	1109	1116	1120	1124	1133	1138	1131	1124	1114	1106	1107	1105	1101
30	1106	1111	1115	1119	1119	1123	1135	1141	1125	1109	1104	1106	1107	1110	1107
31	1105	1110	1118	1123	1125	1142	1154	1155	1142	1131	1118	1111	1110	1110	1109
Mean . .	1097	1100	1106	1113	1118	1126	**1130**	1128	1120	1112	1105	1097	1092	1091	1090
Mean†. .	**1094**	1097	1103	1110	1117	1130	**1138**	1134	1129	1120	1112	1105	1100	1098	1097

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1	1104	1113	1127	1142	1148	1146	1149	1149	1147	1138	1125	1110	1093	1084	1083
2	1097	1105	1115	1127	1131	1137	1144	1145	1139	1122	1105	1100	1100	1103	1104
3	1101	1113	1127	1138	1148	1149	1145	1140	1136	1135	1133	1136	1122	1125	1126
4	1077	1077	1092	1110	1122	1136	1136	1131	1118	1107	1100	1095	1096	1098	1096
5	1091	1100	1105	1122	1138	1145	1141	1131	1122	1110	1104	1096	1095	1093	1091
6†	1095	1098	1108	1127	1145	1159	1163	1159	1145	1132	1121	1113	1109	1106	1105
7†	1105	1107	1108	1117	1126	1151	1162	1165	1158	1149	1136	1125	1116	1111	1112
8	1116	1116	1129	1132	1147	1158	1175	**1179**	1175	1158	1138	1130	1123	1120	1116
9	1097	1096	1095	1092	1105	1117	1127	1128	1122	1118	1113	1100	1098	1098	1093
10	1047	1044	1052	1067	1077	1096	1114	1123	1118	1092	1069	1074	1075	1068	1068
11	1088	1089	1094	1106	1120	1132	1142	1142	1136	1127	1121	1110	1104	1100	1093
12	1080	1083	1085	1092	1103	1131	1151	1135	1127	1118	1113	1105	1101	1094	1089
13	1081	1083	1091	1099	1111	1117	1116	1112	1106	1099	1085	1051	1048	1061	1077
14	1091	1087	1096	1104	1111	1121	1122	1116	1111	1107	1093	1097	1100	1099	1101
15	1095	1097	1115	1133	1140	1146	1140	1133	1126	1117	1106	1099	1100	1103	1096
16	1106	1108	1115	1127	1135	1142	1150	1149	1138	1122	1120	1107	1095	1085	1084
17	1089	1093	1097	1104	1115	1118	1122	1127	1127	1121	1116	1111	1091	1077	1084
18	1094	1097	1104	1116	1130	1144	1149	1144	1135	1124	1115	1109	1109	1097	1089
19	1105	1105	1108	1112	1125	1137	1147	1151	1140	1124	1113	1106	1098	1090	1097
20	1103	1105	1107	1118	1123	1137	1147	1150	1145	1138	1127	1115	1106	1096	1097
21†	1098	1102	1103	1113	1122	1129	1136	1135	1127	1117	1112	1113	1113	1111	1111
22†	1102	1106	1113	1120	1128	1133	1140	1142	1140	1135	1129	1120	1116	1113	1107
23†	1110	1112	1119	1133	1147	1157	1160	1157	1144	1132	1124	1119	1119	1119	1115
24	1119	1125	1133	1142	1147	1157	1156	1149	1137	1128	1128	1105	1067	1047	**1041**
25	1077	1077	1079	1084	1099	1106	1107	1100	1091	1093	1087	1079	1096	1095	1094
26	1081	1079	1081	1089	1104	1115	1119	1120	1115	1111	1101	1093	1093	1090	1095
27	1098	1093	1093	1101	1112	1125	1127	1124	1121	1111	1099	1092	1094	1088	1088
28	1096	1096	1099	1103	1111	1124	1133	1139	1137	1131	1122	1117	1111	1102	1092
Mean .	1095	1097	1103	1113	1124	1134	**1140**	1138	1131	1122	1113	1105	1100	1095	1094
Mean† .	**1102**	1105	1110	1122	1136	1146	**1152**	1151	1143	1133	1125	1118	1115	1112	1110

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JANUARY. 36000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
1092	1084	1094	1100	1102	1102	1100	1109	1104	1103	22 53	1138	16 13	1073	1
1087	1087	1087	1092	1094	1090	1092	1094	1097	1093	4 25	1115	11 37	1074	2
1104	1104	1102	1103	1106	1105	1100	1101	1105	1111	5 17	1135	0 10	1097	3
1088	1087	1088	1096	1112	1133	1094	1074	1087	1100	20 29	1167	22 49	1067	4
1083	1086	1085	1105	1094	1092	1088	1089	1087	1105	6 27	1155	13 15	1069	5
1096	1094	1096	1095	1096	1098	1098	1101	1098	1108	6 13	1150	17 23	1084	6
1002	**980**	984	1021	1023	1031	1023	1027	1051	1063	6 25	1157	17 13	**968**	7
1057	1055	1054	1055	1059	1061	1061	1061	1063	**1054**	5 29	1069	2 25	1023	8
1074	1075	1076	1077	1077	1078	1077	1077	1078	1081	7 17	1105	0 13	1063	9†
1088	1086	1087	1090	1095	1103	1104	1104	1102	1100	8 25	1123	0 13	1077	10†
1081	1076	1062	1058	1066	1069	1076	1077	1079	1089	6 53	1123	18 29	1050	11
1055	1063	1067	1072	1074	1076	1078	1085	1082	1087	6 57	1120	15 27	1049	12
1083	1085	1088	1090	1090	1091	1091	1088	1086	1096	7 5	1126	14 29	1072	13
1099	1095	1091	1094	1088	1088	1088	1103	1102	1095	22 49	1108	21 58	1083	14
1089	1086	1093	1094	1094	1093	1094	1095	1095	1105	5 21	1149	14 29	1085	15
1098	1097	1094	1091	1094	1097	1098	1101	1103	1109	8 13	1135	19 1	1089	16
1087	1089	1094	1089	1087	1089	1090	1098	1099	1105	5 25	1153	12 23	1084	17
1091	1092	1092	1096	1099	1097	1096	1095	1099	1104	6 17	1148	14 17	1076	18
1091	1087	1083	1086	1098	1094	1094	1096	1098	1101	6 49	1138	12 25	1067	19
1098	1098	1098	1100	1101	1102	1102	1103	1103	1107	6 25	1132	12 37	1089	20
1098	1098	1100	1102	1102	1103	1105	1104	1106	1109	6 41	1144	12 37	1093	21†
1111	1109	1109	1109	1112	1113	1112	1111	1111	1124	6 41	1166	0 13	1106	22†
1109	1109	1109	1110	1111	1111	1115	1114	1115	1123	6 37	1163	15 57	1107	23†
1114	1112	1105	1101	1099	1105	1104	1105	1129	**1137**	7 23	**1216**	19 37	1096	24
1097	1097	1095	1096	1096	1097	1092	1089	1089	1117	5 53	1166	23 1	1085	25
1087	1077	1076	1073	1078	1082	1084	1087	1087	1086	2 29	1112	6 37	1070	26
1095	1087	1087	1089	1092	1095	1096	1097	1098	1103	6 53	1131	17 13	1081	27
1092	1093	1093	1092	1103	1101	1095	1093	1099	1106	8 49	1133	15 25	1091	28
1101	1097	1101	1095	1094	1093	1101	1104	1103	1110	6 57	1142	17 17	1087	29
1106	1104	1102	1105	1098	1103	1108	1106	1103	1111	7 13	1146	19 49	1096	30
1106	1105	1103	1101	1097	1095	1093	1096	1101	1115	6 45	1160	21 17	1092	31
1089	**1087**	1087	1090	1091	1093	1092	1093	1095	1102					Mean
1096	1095	1096	1097	1099	1101	1103	1102	1102	1107					Mean†

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1090	1090	1081	1072	1075	1079	1084	1083	1088	1108	3 57	1153	18 45	1068	1
1100	1095	1091	1086	1091	1094	1096	1099	1096	1109	6 37	1147	18 53	1084	2
1123	1125	1123	1114	1103	1087	1075	1066	1070	1119	5 29	1150	22 45	1061	3
1095	1095	1095	1099	1096	1095	1094	1093	1089	1102	5 49	1137	0 13	1072	4
1091	1089	1095	1100	1098	1096	1093	1094	1093	1106	5 25	1147	16 25	1087	5
1101	1101	1103	1105	1105	1105	1105	1105	1104	1118	6 25	1164	0 13	1093	6†
1109	1109	1109	1111	1112	1113	1114	1116	1117	1124	6 17	1166	0 13	1102	7†
1112	1111	1104	1103	1095	1088	1095	1097	1087	1124	7 25	**1180**	20 21	1082	8
1092	1105	1099	1090	1093	1077	1067	1063	1051	1096	7 17	1131	23 45	1046	9
1069	1073	1080	1084	1087	1082	1083	1087	1087	**1081**	7 1	1143	1 09	**1041**	10
1087	1075	1074	1082	1084	1085	1083	1088	1078	1101	7 21	1146	17 27	1073	11
1083	1079	1074	1079	1058	1053	1068	1071	1076	1094	6 53	1153	19 41	1050	12
1076	1071	1081	1072	1078	1088	1088	1083	1089	1086	5 45	1120	12 19	1042	13
1097	1093	1093	1091	1092	1092	1092	1092	1092	1100	6 5	1123	1 25	1083	14
1088	1086	1091	1099	1101	1101	1101	1103	1106	1109	5 33	1147	15 57	1082	15
1087	1090	1092	1092	1091	1088	1088	1092	1091	1108	6 57	1154	13 45	1079	16
1092	1086	1085	1091	1093	1099	1097	1096	1097	1101	7 55	1128	13 37	1071	17
1087	1093	1110	1096	1102	1105	1102	1102	1102	1111	6 37	1150	15 45	1083	18
1096	1096	1091	1092	1093	1097	1101	1101	1101	1109	7 5	1152	14 13	1087	19
1095	1096	1098	1099	1105	1104	1097	1093	1096	1112	7 5	1152	13 53	1092	20
1107	1105	1103	1102	1100	1097	1097	1100	1100	1111	6 49	1138	21 13	1093	21†
1108	1107	1105	1107	1107	1107	1108	1110	1110	1117	7 49	1143	0 15	1101	22†
1112	1111	1112	1114	1113	1113	1115	1115	1117	**1125**	7 5	1161	16 37	1106	23†
1056	1053	1046	1084	1085	1072	1066	1081	1072	1029	5 49	1161	14 17	1036	24
1092	1084	1085	1085	1094	1094	1080	1079	1079	1089	6 49	1110	11 13	1068	25
1092	1078	1100	1090	1090	1090	1086	1085	1094	1096	7 37	1123	16 41	1073	26
1087	1088	1095	1097	1098	1095	1097	1101	1097	1101	6 21	1128	14 17	1085	27
1079	1075	1072	1072	1097	1083	1074	1089	1085	1101	7 37	1141	20 57	1065	28
1093	**1091**	1092	1093	1094	1092	1091	1092	1092	1106					Mean
1107	1107	1107	1108	1107	1107	1107	1109	1110	1119					Mean†

*The daily mean values of horizontal force, derived from 24 hourly values have been corrected for progressive change by 1/48 of the difference between the values of the initial and terminal hours.

†Five international quiet days.

133513

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MARCH. 36000γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1082	1094	1094	1100	1100	1114	1110	1101	1097	1081	1074	1067	1069	1071	1059
2†	1089	1095	1101	1109	1116	1124	1131	1134	1131	1120	1110	1106	1099	1088	1087
3	1095	1095	1103	1115	1123	1131	1138	1134	1119	1106	1097	1094	1097	1099	1096
4	1094	1095	1104	1122	1137	1150	1156	1156	1144	1127	1113	1108	1109	1107	1104
5	1100	1104	1115	1132	1148	1161	1168	1169	1157	1143	1131	1123	1118	1116	1117
6	1092	1097	1108	1120	1123	1138	1149	1154	1143	1130	1125	1122	1115	1107	1103
7	1102	1102	1106	1115	1130	1143	1152	1145	1139	1131	1124	1120	1111	1109	1107
8	1094	1095	1099	1108	1124	1139	1152	1155	1148	1134	1122	1119	1119	1119	1116
9	1106	1093	1092	1095	1102	1099	1100	1100	1104	1095	1081	1068	1057	1060	1067
10	1091	1088	1091	1098	1094	1107	1115	1119	1112	1082	1046	1036	1041	1071	1077
11	1089	1087	1097	1113	1130	1149	1148	1146	1135	1118	1096	1080	1072	1065	1078
12	1091	1096	1105	1125	1142	1146	1141	1141	1132	1119	1100	1093	1096	1100	1101
13	1101	1101	1110	1120	1136	1149	1151	1135	1115	1135	1075	1085	1097	1092	1089
14	1096	1094	1111	1128	1138	1138	1141	1137	1133	1125	1114	1111	1103	1106	1097
15	1107	1115	1108	1121	1141	1148	1155	1152	1142	1119	1111	1109	1099	1089	1185
16	1088	1092	1095	1101	1111	1097	1097	1088	1072	1044	1036	1044	1034	1025	1018
17	1058	1061	1071	1083	1093	1105	1100	1093	1087	1075	1060	1061	1066	1073	1075
18	1055	1064	1066	1084	1099	1119	1127	1117	1102	1087	1069	1057	1058	1061	1067
19	1079	1083	1088	1103	1118	1136	1143	1143	1137	1126	1113	1097	1086	1080	1083
20	1097	1095	1103	1113	1135	1150	1148	1142	1129	1109	1083	1069	1057	1057	1039
21	1083	1080	1087	1102	1118	1133	1133	1128	1122	1113	1102	1095	1098	1098	1094
22†	1095	1095	1104	1123	1143	1158	1166	1157	1150	1137	1124	1112	1108	1103	1096
23†	1106	1109	1124	1147	1171	1188	**1190**	1183	1171	1151	1130	1113	1106	1104	1099
24†	1101	1105	1112	1127	1146	1167	1170	1162	1148	1138	1125	1117	1116	1113	1109
25†	1112	1113	1121	1137	1155	1170	1173	1170	1164	1155	1145	1146	1138	1135	1126
26	1106	1099	1103	1114	1129	1144	1149	1137	1115	1099	1096	1095	1067	1056	1047
27	1087	1082	1085	1091	1109	1124	1125	1127	1119	1116	1103	1088	1083	1080	1090
28	1075	1064	1063	1087	1084	1087	1189	1103	1099	1086	1061	1053	1055	1065	1065
29	1096	1092	1099	1119	1133	1155	1149	1145	1143	1133	1119	1117	1118	1169	1099
30	1099	1105	1121	1148	1180	1190	1187	1183	1168	1154	1131	1116	1097	1089	1092
31	1103	1112	1122	1141	1165	1185	1184	1168	1149	1134	1121	1116	1110	1105	1105
Mean .	1093	1094	1100	1114	1128	1140	**1143**	1139	**1130**	1117	1101	1095	1090	1089	1087
Mean† .	1101	1103	1112	1129	1146	1162	**1166**	1161	1153	1140	1127	1119	1113	1108	**110**

APRIL.

1	1108	1109	1114	1121	1128	1145	1149	1147	1138	1124	1110	1099	1092	1087	1085
2	1094	1096	1099	1105	1119	1138	1148	1153	1146	1137	1126	1113	1106	1103	1103
3	1109	1107	1109	1118	1133	1151	1161	1165	1153	1141	1138	1130	1118	1112	1109
4	1108	1113	1118	1132	1147	1166	1176	1177	1167	1156	1145	1136	1124	1110	1102
5	1097	1096	1097	1109	1128	1150	1166	1167	1161	1153	1134	1111	1091	1094	1101
6	1096	1097	1101	1114	1134	1151	1170	1171	1162	1148	1136	1126	1116	1111	1110
7	1106	1108	1112	1123	1140	1167	1173	1176	1169	1153	1141	1131	1125	1115	1097
8	1083	1086	1092	1097	1118	1139	1153	1157	1139	1112	1074	1051	1035	1027	1032
9	1098	1104	1114	1126	1142	1159	1174	1181	1168	1161	1140	1106	1068	1043	1033
10	1064	1065	1063	1070	1090	1112	1131	1138	1141	1129	1098	1081	1075	1071	1075
11	1108	1106	1109	1117	1126	1133	1131	1117	1120	1109	1102	1094	1101	1099	1088
12	1086	1086	1088	1095	1112	1135	1142	1141	1145	1127	1110	1104	1099	1097	1092
13	1093	1095	1103	1116	1138	1162	1171	1167	1157	1140	1123	1113	1107	1108	1108
14	1125	1136	1147	1166	1178	1193	**1220**	1171	1116	1065	1012	940	903	**889**	894
15	1028	1032	1044	1058	1073	1095	1105	1098	1090	1078	1074	1067	1062	1048	1050
16	1074	1075	1079	1090	1108	1126	1142	1143	1130	1116	1106	1095	1084	1085	1088
17†	1084	1087	1093	1104	1121	1144	1153	1159	1155	1143	1125	1110	1100	1097	1095
18†	1097	1101	1111	1129	1155	1179	1193	1191	1174	1157	1141	1126	1114	1107	1099
19	1103	1104	1110	1121	1141	1160	1171	1176	1167	1142	1128	1124	1117	1114	1113
20†	1104	1102	1105	1116	1133	1150	1166	1178	1175	1160	1148	1135	1124	1117	1116
21†	1114	1116	1120	1134	1157	1181	1192	1193	1184	1168	1154	1140	1124	1118	1117
22†	1111	1114	1122	1134	1150	1172	1183	1189	1183	1169	1154	1138	1127	1125	1126
23	1122	1125	1131	1145	1163	1182	1193	1196	1190	1175	1159	1151	1143	1137	1128
24	1109	1106	1110	1124	1142	1139	1120	1107	1105	1092	1085	1077	1081	1076	1063
25	1086	1081	1083	1097	1115	1127	1125	1121	1121	1117	1107	1102	1102	1095	1095
26	1092	1095	1099	1112	1124	1136	1136	1136	1131	1127	1123	1118	1111	1106	1103
27	1100	1103	1106	1118	1137	1151	1155	1147	1141	1130	1119	1113	1110	1109	1109
28	1114	1114	1119	1135	1153	1162	1165	1163	1154	1143	1138	1136	1131	1125	1121
29	1121	1119	1121	1131	1148	1164	1174	1175	1168	1157	1151	1145	1138	1136	1135
30	1118	1129	1132	1140	1149	1158	1163	1162	1151	1140	1133	1123	1116	1115	1113
Mean .	1098	1100	1105	1117	1133	1151	**1160**	1159	1150	1136	1121	1108	1098	1093	1090
Mean† .	**1102**	1104	1110	1123	1143	1165	1177	**1182**	1175	1159	1144	1130	1118	1113	1111

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MARCH. 36000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
1083	1064	1078	1074	1079	1096	1093	1090	1090	1085	5 53	1122	14 21	1054	1
1081	1082	1086	1090	1093	1090	1091	1095	1096	1102	7 5	1136	15 39	1078	2†
1094	1093	1087	1087	1091	1100	1097	1095	1094	1103	6 41	1141	19 21	1082	3
1100	1095	1092	1090	1088	1091	1091	1097	1100	1111	7 5	1160	19 29	1087	4
1117	1108	1101	1091	1095	1097	1089	1087	1089	1120	7 31	1171	23 1	1084	5
1095	1089	1089	1086	1082	1081	1085	1086	1096	1109	7 21	1156	20 17	1075	6
1103	1100	1104	1109	1109	1100	1093	1093	1093	1114	6 17	1155	22 29	1089	7
1110	1108	1110	1108	1110	1105	1100	1093	1094	1116	7 5	1157	23 13	1085	8
1055	1060	1060	1059	1075	1075	1071	1079	1100	1081	0 25	1111	16 17	1036	9
1075	1068	1079	1082	1082	1082	1083	1084	1085	1083	7 21	1123	12 25	1022	10
1083	1087	1086	1083	1085	1085	1083	1096	1092	1099	6 1	1153	13 33	1059	11
1100	1096	1100	1100	1098	1096	1099	1101	1097	1109	5 21	1155	0 29	1090	12
1084	1087	1089	1092	1091	1089	1089	1089	1093	1104	6 1	1157	10 29	1071	13
1079	1080	1082	1089	1095	1096	1095	1101	1102	1108	6 41	1144	15 49	1075	14
1087	1092	1085	1099	1093	1090	1108	1097	1090	1110	6 14	1159	18 3	1080	15
1003	1003	1047	1054	1044	1059	1045	1054	1058	**1058**	4 14	1118	16 39	**992**	16
1070	1061	1042	1053	1067	1060	1047	1050	1051	1069	5 41	1113	17 57	1028	17
1065	1069	1071	1078	1078	1075	1078	1076	1076	1080	6 53	1133	11 25	1052	18
1079	1085	1089	1080	1081	1085	1087	1094	1097	1100	7 25	1146	16 21	1072	19
1059	1066	1066	1074	1089	1079	1075	1081	1080	1092	5 57	1155	14 39	1033	20
1092	1089	1087	1039	1095	1093	1094	1095	1095	1101	6 15	1138	1 5	1079	21
1090	1086	1087	1091	1094	1095	1100	1103	1103	1113	6 25	1168	16 37	1084	22†
1097	1099	1104	1104	1102	1102	1103	1098	1100	1125	5 41	1191	15 49	1095	23†
1105	1101	1103	1105	1106	1108	1109	1108	1109	1121	6 15	1173	0 15	1099	24†
1124	1123	1123	1120	1118	1113	1116	1119	1117	**1135**	6 25	1176	0 17	1110	25†
1036	1043	1036	1045	1047	1057	1084	1079	1085	1086	6 43	1155	15 27	1026	26
1079	1051	1062	1065	1102	1070	1069	1068	1085	1090	6 53	1138	16 17	1039	27
1060	1055	1058	1066	1067	1068	1071	1075	1083	1073	8 17	1108	11 5	1044	28
1093	1091	1090	1089	1092	1099	1103	1098	1096	1112	5 45	1162	18 1	1085	29
1088	1090	1088	1092	1091	1093	1091	1093	1093	1120	5 41	**1195**	17 45	1084	30
1098	1096	1100	1098	1105	1106	1103	1109	1109	1123	6 5	1190	16 5	1093	31
1083	**1081**	1083	1085	1089	1088	1089	1090	1092	1102					Mean.
1099	**1098**	1101	1102	1102	1102	1104	1105	1105	1119					Mean.†

APRIL.

1088	1089	1096	1101	1100	1096	1094	1094	1094	1109	5 25	1153	13 49	1082	1
1103	1105	1105	1108	1107	1107	1108	1106	1106	1115	6 49	1156	0 17	1091	2
1105	1103	1103	1106	1107	1105	1101	1102	1104	1120	6 41	1170	17 1	1098	3
1097	1102	1105	1096	1100	1114	1096	1094	1096	1124	6 49	1181	18 53	1085	4
1099	1097	1095	1096	1099	1102	1102	1097	1096	1114	6 29	1172	12 13	1084	5
1107	1105	1101	1099	1097	1098	1105	1104	1104	1120	6 33	1173	1 17	1095	6
1088	1072	1060	1059	1058	1059	1081	1082	1081	1111	6 33	1178	19 17	1053	7
1036	1044	1051	1063	1070	1074	1077	1084	1096	1083	6 45	1163	12 49	1021	8
1035	1028	1008	1017	1035	1050	1052	1055	1062	1089	7 13	1188	16 53	1006	9
1080	1081	1083	1086	1091	1093	1097	1103	1107	1094	7 49	1144	2 17	1061	10
1066	1051	1038	1036	1055	1064	1071	1071	1075	1091	5 21	1138	17 37	1019	11
1092	1092	1088	1090	1091	1092	1091	1097	1095	1104	7 37	1153	14 29	1085	12
1103	1099	1100	1103	1107	1107	1106	1103	1103	1119	5 57	1176	0 17	1091	13
923	976	1105	1005	1011	1021	1021	1026	1026	**1047**	6 21	**1240**	12 49	**878**	14
1057	1066	1069	1071	1071	1071	1071	1071	1072	1069	6 21	1109	0 13	1024	15
1087	1084	1083	1083	1083	1080	1083	1083	1083	1096	6 49	1148	1 9	1072	16
1093	1095	1096	1098	1099	1098	1099	1099	1097	1111	6 49	1160	0 17	1083	17†
1099	1097	1097	1098	1098	1099	1099	1101	1102	1124	6 7	1198	16 9	1095	18†
1111	1109	1109	1109	1108	1108	1109	1107	1105	1123	6 53	1179	0 33	1102	19
1115	1113	1113	1113	1115	1115	1115	1115	1113	1127	7 17	1185	0 37	1101	20†
1114	1113	1111	1111	1111	1111	1113	1111	1110	1134	6 17	1196	16 3	1109	21†
1122	1121	1121	1122	1122	1121	1121	1121	1122	1137	7 7	1190	0 37	1110	22†
1113	1095	1094	1103	1102	1101	1099	1101	1110	1135	7 7	1199	16 47	1089	23
1050	1050	1056	1064	1069	1078	1093	1097	1091	1091	4 25	1151	15 7	1045	24
1093	1089	1091	1090	1092	1094	1093	1089	1091	1100	5 15	1132	0 37	1076	25
1096	1097	1098	1101	1099	1093	1096	1098	1097	1109	6 49	1139	19 53	1090	26
1107	1109	1110	1110	1110	1109	1109	1111	1113	1119	5 53	1159	0 11	1098	27
1119	1118	1118	1120	1120	1120	1119	1119	1120	1131	5 33	1166	0 33	1110	28
1134	1130	1127	1127	1130	1130	1130	1129	1125	**1139**	6 15	1178	0 7	1114	29
1110	1106	1105	1104	1104	1102	1111	1112	1113	1125	6 33	1166	18 41	1099	30
1088	1088	1088	1090	1092	1094	1095	1096	1097	1110					Mean.
1109	1107	1108	1108	1109	1109	1109	1110	1109	1127					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 36000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1114	1114	1115	1118	1127	1142	1151	1155	1151	1142	1132	1124	1117	1108	1108
2	1116	1114	1114	1118	1131	1143	1151	1151	1154	1147	1140	1132	1125	1118	1114
3	1122	1124	1128	1139	1150	1160	1165	1164	1155	1135	1121	1114	1104	1104	1085
4	1080	1077	1081	1088	1107	1131	1152	1141	1131	1128	1123	1117	1108	1104	1101
5	1084	1100	1103	1098	1090	1082	1065	1043	1025	1011	1000	1008	1024	1030	1036
6	1077	1078	1084	1103	1121	1137	1147	1148	1145	1136	1122	1108	1089	1066	1063
7	1083	1088	1098	1113	1133	1150	1157	1163	1149	1119	1121	1120	1094	1034	1009
8	1067	1067	1075	1078	1085	1111	1131	1139	1134	1123	1095	1089	1085	1083	1080
9	1089	1089	1095	1108	1123	1129	1132	1129	1115	1104	1099	1096	1094	1091	1087
10	1088	1095	1106	1120	1135	1147	1153	1160	1157	1148	1139	1125	1114	1103	1101
11†	1103	1105	1109	1124	1136	1145	1149	1147	1143	1137	1130	1121	1114	1110	1109
12†	1104	1107	1114	1129	1148	1163	1169	1169	1140	1148	1136	1125	1119	1116	1115
13	1110	1110	1117	1129	1143	1153	1154	1151	1147	1141	1136	1130	1121	1112	1109
14	1108	1110	1116	1126	1137	1143	1145	1141	1139	1133	1120	1117	1120	1116	1117
15	1113	1114	1124	1122	1132	1139	1139	1147	11 0	1109	1089	1096	1090	1074	1080
16	1105	1109	1118	1130	1139	1147	1152	1155	1147	1125	1111	1106	1097	1083	1084
17†	1103	1107	1114	1127	1140	1145	1146	1149	1149	1143	1133	1123	1115	1108	1109
18†	1108	1112	1119	1130	1140	1153	1161	1161	1157	1143	1127	1119	1114	1107	1101
19	1115	1113	1113	1123	1142	1163	1174	1165	1142	1121	1113	1100	1087	1071	1067
20	1098	1103	1115	1128	1134	1127	1137	1136	1142	1130	1119	1096	1090	1087	1059
21	1085	1088	1089	1097	1109	1122	1133	1132	1128	1121	1113	1104	1103	1105	1107
22	1102	1100	1101	1104	1119	1134	1133	1128	1129	1118	1114	1109	1106	1104	1104
23	1106	1111	1123	1140	1156	1174	1175	**1191**	1180	1163	1146	1139	1132	1127	1124
24	1114	1115	1119	1133	1150	1173	1180	1178	1168	1150	1138	1129	1124	1120	1119
25	1116	1118	1126	1138	1151	1164	1174	1178	1170	1147	1146	1136	1128	1121	1115
26†	1123	1119	1139	1153	1167	1178	1185	1187	1181	1169	1149	1133	1125	1124	1124
27	1123	1123	1126	1131	1138	1165	1186	1186	1184	1155	1112	1115	1114	1115	1118
28	1135	1134	1137	1140	1145	1164	1178	1169	1152	1131	1106	1103	1110	1112	1104
29	1089	1089	1093	1103	1114	1125	1131	1130	1128	1124	1119	1112	1107	1107	1109
30	1109	1109	1114	1125	1137	1149	1162	1167	1159	1141	1130	1120	1113	1109	1111
31	1111	1115	1123	1 31	1140	1149	1156	1156	1148	1136	1127	1122	1114	1112	1109
Mean .	1103	1105	1111	1121	1133	1145	**1152**	1152	1145	1132	1120	1113	1106	1099	1096
Mean† .	**1108**	1112	1119	1133	1146	1157	1162	**1163**	1158	1148	1135	1124	1117	1113	1111

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1	1119	1121	1131	1142	1155	1167	1176	1173	1168	1156	1145	1140	1131	1124	1124
2	1118	1120	1124	1133	1148	1169	1172	1172	1169	1148	1132	1130	1146	1133	1121
3	1125	1131	1131	1137	1148	1151	1151	1146	1138	1139	1130	1116	1115	1116	1116
4	1123	1129	1137	1146	1158	1170	1177	1177	1174	1164	1150	1137	1128	1119	1115
5	1140	1146	1148	1155	1168	1173	1149	1150	1155	1138	1123	1107	1101	**1099**	1099
6	1112	1105	1109	1122	1130	1136	1138	1133	1129	1121	1115	1109	1108	1111	1112
7	1115	1118	1126	1140	1155	1165	1172	1176	1165	1150	1137	1130	1127	1119	1112
8†	1119	1118	1126	1140	1150	1163	1165	1161	1153	1142	1134	1129	1123	1121	1120
9	1119	1121	1127	1135	1145	1152	1152	1152	1148	1143	1134	1124	1117	1116	1116
10	1123	1128	1140	1157	1166	1169	1166	1160	1149	1143	1139	1128	1118	1111	1107
11	1126	1128	1135	1145	1155	1156	1155	1157	1157	1153	1150	1140	1124	1115	1099
12	1119	1125	1128	1137	1143	1150	1160	1161	1156	1130	1116	1118	1110	1110	1110
13	1116	1121	1124	1124	1125	1132	1143	1143	1146	1142	1136	1129	1124	1119	1120
14	1122	1124	1127	1141	1149	1164	1173	1177	1171	1156	1143	1129	1118	1108	1110
15	1118	1118	1122	1131	1151	1160	1175	1184	1189	1195	1180	1152	1135	1127	1125
16	1120	1125	1134	1138	1145	1159	1167	1167	1163	1156	1144	1134	1132	1129	1125
17	1126	1128	1136	1149	1163	1179	1190	1187	1183	1175	1159	1141	1118	1113	1121
18	1120	1124	1129	1138	1150	1163	1166	1160	1148	1137	1126	1120	1118	1120	1120
19†	1122	1125	1129	1145	1157	1165	1169	1164	1162	1155	1145	1137	1129	1127	1126
20†	1126	1130	1135	1145	1159	1175	1182	1181	1174	1167	1154	1145	1139	1133	1130
21†	1128	1128	1131	1138	1145	1153	1160	1160	1161	1159	1150	1139	1133	1129	1128
22	1132	1137	1144	1151	1157	1162	1160	1152	1146	1141	1137	1137	1139	1140	1134
23	1132	1134	1139	1151	1165	1165	1176	1173	1169	1162	1150	1141	1138	1134	1133
24†	1128	1134	1140	1148	1161	1173	1178	1176	1178	1175	1167	1156	1144	1134	1128
25	1141	1143	1144	1143	1151	1164	1175	1174	1182	1173	1161	1149	1139	1132	1130
26	1137	1143	1145	1154	1171	1187	1194	1191	**1200**	1197	1173	1144	1145	1143	1117
27	1109	1114	1117	1123	1130	1146	1153	1147	1135	1139	1140	1132	1121	1115	1109
28	1113	1117	1127	1140	1150	1165	1175	1178	1172	1163	1147	1130	1116	1109	1109
29	1122	1124	1129	1138	1151	1167	1175	1176	1173	1162	1146	1130	1120	1117	1116
30	1117	1122	1131	1144	1155	1168	1176	1178	1175	1167	1154	1143	1137	1132	1132
Mean .	1123	1126	1131	1141	1151	1162	**1167**	1166	1163	1155	1144	1133	1126	1122	1119
Mean† .	**1125**	1127	1132	1143	1154	1166	**1171**	1168	1165	1160	1150	1141	1133	1129	1127

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 36000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
1114	1115	1115	1112	1112	1116	1116	1117	1116	1123	6 29	1157	13 25	1107	1
1114	1112	1106	1103	1104	1110	1114	1112	1117	1123	7 25	1155	17 59	1101	2
1069	1063	1062	1068	1063	1066	1068	1069	1070	1106	6 33	1169	16 37	1048	3
1100	1099	1100	1098	1091	1084	1080	1080	1083	1104	6 4	1159	0 45	1075	4
1044	1052	1055	1059	1063	1063	1056	1060	1075	**1055**	2 11	1110	10 7	993	5
1063	1068	1072	1073	1075	1076	1076	1079	1081	1095	6 17	1149	13 11	1060	6
985	1009	1035	1044	1047	1050	1054	1061	1070	1082	7 17	1170	14 57	**978**	7
1081	1078	1084	1093	1091	1089	1088	1089	1090	1093	7 21	1144	0 49	1065	8
1083	1088	1085	1079	1084	1086	1083	1086	1086	1097	5 49	1138	18 59	1073	9
1099	1098	1100	1102	1102	1102	1102	1102	1102	1117	7 21	1164	0 11	1087	10
1107	1105	1103	1103	1103	1104	1103	1103	1103	1117	6 17	1154	19 23	1098	11†
1113	1112	1112	1111	1107	1107	1106	1109	1112	1125	6 17	1172	20 49	1102	12†
1109	1109	1110	1112	1110	1108	1109	1110	1109	1123	5 29	1159	0 33	1105	13
1117	1116	1115	1113	1111	1112	1113	1114	1115	1121	5 33	1148	0 11	1107	14
1091	1093	1088	1092	1101	1102	1101	1103	1104	1107	7 11	1149	13 29	1060	15
1087	1087	1092	1095	1093	1095	1102	1100	1100	1111	6 49	1157	13 21	1079	16
1107	1106	1106	1106	1108	1108	1106	1105	1107	1120	7 19	1151	0 13	1102	17†
1103	1104	1106	1109	1109	1111	1113	1114	1114	1123	6 29	1164	14 25	1099	18†
1075	1089	1088	1085	1088	1089	1089	1096	1101	1108	6 25	1183	13 29	1064	19
1051	1067	1077	1071	1070	1078	1086	1082	1082	1098	7 53	1148	14 57	1035	20
1105	1103	1105	1105	1105	1111	1108	1105	1102	1108	5 45	1136	0 13	1084	21
1105	1105	1105	1106	1106	1105	1107	1106	1104	1110	5 11	1143	1 1	1097	22
1120	1118	1115	1113	1112	1118	1118	1116	1114	1135	7 13	1193	0 13	1105	23
1120	1121	1119	1117	1117	1115	1115	1115	1115	1132	6 1	1186	0 11	1113	24
1110	1105	1107	1111	1116	1121	1118	1116	1118	1132	6 49	1180	15 53	1103	25
1123	1119	1119	1118	1120	1121	1120	1122	1123	**1139**	6 39	1189	16 37	1117	26†
1122	1127	1129	1136	1145	1136	1129	1132	1134	1137	7 49	**1198**	9 53	1109	27
1103	1111	1102	1096	1099	1091	1085	1081	1081	1119	5 45	1181	22 49	1078	28
1110	1111	1110	1110	1110	1112	1111	1112	1112	1112	5 49	1134	0 33	1088	29
1112	1111	1111	1112	1113	1112	1110	1109	1109	1123	6 53	1169	13 17	1107	30
1108	1112	1113	1113	1115	1115	1117	1122	1119	1124	6 25	1159	15 17	1107	31
1095	1097	1098	1099	1100	1100	1100	1101	1102	1114					Mean.
1111	1109	1109	1109	1109	1100	1110	1111	1112	1125					Mean.†

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1124	**1127**	1133	1139	1124	1117	1124	1120	1118	1137	5 49	1179	20 11	1106	1
1113	1106	1106	1110	1113	1119	1121	1118	1116	1132	7 29	1178	16 27	1100	2
1114	1112	1114	1115	1115	1118	1118	1118	1121	1127	6 49	1163	15 45	1109	3
1115	1119	1123	1128	1129	1128	1127	1133	1134	1139	6 7	1180	13 45	1113	4
1099	1103	1106	1105	1106	1108	1107	1107	1123	1125	4 33	1186	12 49	1097	5
1111	1111	1112	1113	1113	1111	1112	1113	1113	**1117**	5 29	1142	1 17	1102	6
1112	1115	1118	1116	1115	1115	1117	1118	1119	1131	6 57	1178	14 49	1109	7
1119	1117	1118	1119	1121	1122	1122	1121	1120	1131	6 29	1167	0 25	1115	8†
1120	1119	1117	1119	1117	1114	1113	1115	1119	1127	6 49	1155	21 25	1111	9
1111	1110	1115	1115	1117	1121	1121	1123	1123	1132	5 21	1170	13 49	1102	10
1099	1103	1103	1107	1110	1116	1117	1115	1113	1128	7 49	1162	14 1	**1093**	11
1112	1106	1107	1109	1112	1112	1118	1116	1113	1124	7 33	1163	16 29	1104	12
1118	1116	1114	1115	1117	1118	1118	1120	1121	1125	6 25	1151	17 13	1111	13
1108	1113	1115	1117	1118	1118	1118	1116	1117	1131	6 37	1189	13 33	1107	14
1127	1128	1 28	1127	1127	1126	1119	1117	1122	1141	8 41	1200	21 41	1114	15
1125	1126	1128	1130	1130	1129	1127	1128	1129	1137	6 33	1172	0 13	1119	16
1120	1117	1119	1117	1117	1117	1120	1119	1119	1139	6 5	1194	12 33	1106	17
1 20	1121	1123	1124	1124	1122	1123	1124	1122	1131	5 41	1168	11 17	1117	18
1125	1125	1126	1127	1127	1127	1126	1126	1126	1137	5 53	1172	0 11	1121	19†
1130	1129	1129	1129	1129	1129	1129	1129	1129	1143	6 25	1185	22 1	1125	20†
1129	1131	1131	1131	1130	1130	1132	1137	1135	1139	6 29	1163	1 13	1126	21†
1127	1125	1127	1128	1127	1125	1127	1129	1131	1138	5 53	1166	15 45	1123	22
1131	1129	1130	1130	1128	1128	1127	1129	1127	1142	6 5	1179	19 21	1125	23
1126	1126	1129	1132	1130	1135	1137	1139	1138	**1147**	7 49	1179	15 33	1125	24†
1129	1129	1132	1132	1134	1135	1139	1136	1136	1146	7 59	1190	15 51	1127	25
1108	1105	1114	1112	1117	1112	1118	1133	1117	1145	8 51	**1210**	14 2	1098	26
1107	1107	1109	1111	1110	1111	1110	1111	1113	1122	5 45	1158	15 37	1103	27
1111	1111	1116	1115	1116	1116	1117	1121	1121	**1132**	6 57	1181	13 17	1108	28
1115	1118	1119	1116	1114	1115	1115	1116	1116	**1133**	5 57	1180	19 29	1113	29
1140	1127	1125	1128	1135	1141	1142	1141	1138	1144	6 49	1182	0 11	1115	30
1118	1118	1119	1121	1121	1121	1122	1123	1123	1134					Mean.
1126	1125	1127	1127	1127	1129	1129	1130	1129	1139					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 36000γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1126	1123	1129	1133	1140	1153	1166	1175	1168	1154	1139	1122	1110	1095	1095
2	1126	1130	1137	1142	1152	1168	1171	1166	1165	1161	1149	1139	1133	1132	1125
3†	1120	1123	1125	1137	1146	1149	1150	1150	1148	1145	1137	1125	1118	1119	1122
4	1127	1129	1136	1147	1157	1169	1169	1168	1166	1161	1147	1133	1125	1123	1124
5	1126	1132	1130	1132	1138	1150	1152	1149	1155	1158	1149	1137	1137	1137	1130
6	1131	1130	1133	1152	1175	1193	1196	1193	1190	1177	1163	1151	1141	1138	1133
7	1128	1129	1132	1139	1149	1160	1168	1173	1173	1153	1121	1097	1083	1088	1095
8	1125	1132	1145	1166	1182	1187	1181	1183	1184	1167	1148	1121	1121	1115	1109
9	1120	1122	1122	1127	1135	1147	1161	1171	1172	1161	1143	1128	1121	1121	1118
10†	1121	1121	1126	1135	1149	1166	1171	1174	1174	1165	1136	1128	1125	1125	1125
11	1125	1129	1132	1139	1150	1167	1169	1165	1163	1160	1155	1145	1134	1127	1125
12	1131	1129	1129	1133	1140	1151	1157	1163	1161	1156	1147	1132	1123	1121	1121
13	1127	1131	1137	1149	1161	1168	1172	1166	1154	1143	1135	1133	1132	1133	1135
14	1130	1138	1141	1143	1144	1148	1157	1156	1148	1145	1139	1132	1127	1126	1128
15†	1133	1135	1143	1154	1164	1169	1165	1164	1163	1153	1141	1132	1128	1127	1124
16†	1128	1129	1133	1137	1147	1159	1161	1161	1159	1151	1141	1136	1132	1132	1132
17	1137	1142	1154	1163	1177	1176	1151	1132	1127	1127	1119	1110	1109	1105	1104
18	1127	1130	1137	1141	1157	1175	1183	1184	1176	1159	1147	1134	1127	1127	1128
19	1127	1129	1133	1137	1148	1169	1177	1178	1177	1172	1162	1145	1132	1131	1125
20	1128	1130	1133	1136	1141	1146	1151	1150	1153	1151	1146	1135	1127	1125	1125
21	1125	1131	1133	1142	1150	1162	1163	1164	1167	1158	1144	1137	1130	1124	1123
22	1119	1116	1107	1102	1126	1123	1061	1030	1036	1048	1072	1072	1045	1009	1058
23	1060	1065	1079	1094	1111	1122	1129	1133	1128	1113	1046	1057	1074	1072	1066
24	1085	1091	1098	1101	1112	1128	1130	1136	1133	1128	1117	1109	1094	1090	1092
25	1092	1099	1100	1105	1113	1123	1129	1132	1128	1119	1116	1108	1106	1105	1102
26	1101	1103	1105	1112	1120	1138	1155	1160	1159	1152	1138	1119	1119	1106	1105
27	1118	1118	1116	1114	1117	1131	1142	1153	1159	1147	1138	1131	1110	1104	1099
28	1103	1110	1114	1123	1132	1143	1150	1151	1147	1141	1132	1120	1111	1109	1111
29†	1116	1115	1121	1132	1142	1151	1165	1167	1158	1150	1142	1131	1121	1118	1117
30	1119	1122	1130	1135	1143	1156	1160	1151	1145	1136	1126	1119	1110	1112	1109
31	1110	1114	1123	1134	1147	1156	1166	1163	1151	1128	1123	1114	1107	1101	1096
Mean . .	1118	1122	1126	1133	1144	1155	**1157**	1157	1154	1146	1134	1124	1117	**1113**	1113
Mean† . .	**1123**	1125	**1130**	1139	1149	1159	1162	**1163**	1160	1153	1139	1130	1125	1124	1124

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1	1109	1112	1115	1117	1122	1128	1133	1140	1137	1131	1126	1119	1114	1116	1110
2	1104	1107	1107	1111	1114	1132	1131	1128	1123	1115	1121	1124	1117	1110	1104
3	1114	1126	1128	1127	1126	1141	1143	1137	1137	1127	1120	1116	1109	1109	1107
4	1110	1112	1115	1122	1131	1135	1139	1143	1139	1138	1132	1116	1102	1112	1103
5	1114	1115	1119	1125	1126	1141	1148	1152	1147	1134	1122	1113	1107	1106	1097
6†	1114	1116	1121	1127	1131	1143	1149	1153	1148	1141	1135	1129	1120	1115	1116
7†	1119	1121	1126	1139	1153	1165	1161	1159	1152	1141	1136	1132	1124	1117	1118
8	1124	1125	1131	1140	1149	1155	1154	1148	1141	1132	1124	1115	1105	1105	1109
9	1120	1124	1136	1150	1152	1162	1157	1147	1145	1143	1141	1135	1126	1119	1119
10	1126	1128	1139	1154	1167	1174	1180	1175	1168	1152	1136	1124	1112	1107	1107
11	1118	1118	1125	1125	1126	1131	1139	1137	1137	1134	1131	1128	1122	1124	1125
12	1123	1125	1129	1137	1141	1145	1143	1146	1141	1141	1135	1129	1122	1118	1118
13†	1119	1123	1129	1136	1144	1153	1156	1161	1159	1155	1149	1138	1132	1126	1122
14	1127	1128	1130	1138	1147	1155	1159	1158	1155	1150	1144	1136	1131	1133	1134
15	1135	1131	1133	1143	1166	1175	1190	**1193**	1181	1171	1159	1156	1155	1145	1135
16	1137	1132	1139	1153	1162	1167	1170	1170	1167	1160	1152	1142	1132	1132	1131
17	1126	1126	1126	1127	1137	1150	1159	1162	1158	1152	1142	1133	1128	1129	1130
18	1132	1132	1134	1142	1159	1175	1187	1180	1175	1172	1169	1152	1140	1135	1132
19	1135	1135	1136	1149	1159	1170	1178	1179	1178	1166	1155	1146	1136	1135	1146
20	1149	1151	1158	1154	1148	1169	1181	1168	1129	1101	1085	1079	1057	1069	1080
21	1079	1064	1069	1067	1080	1105	1127	1143	1135	1114	1037	1029	1045	1042	1041
22	1065	1067	1068	1073	1084	1102	1107	1107	1101	1090	1081	1078	1073	1074	1080
23	1089	1091	1099	1110	1126	1140	1149	1145	1134	1123	1111	1103	1098	1093	1093
24	1096	1098	1103	1112	1122	1134	1136	1138	1136	1127	1119	1113	1109	1106	1104
25†	1109	1107	1111	1121	1138	1155	1164	1165	1162	1152	1139	1128	1119	1113	1111
26†	1109	1109	1104	1108	1127	1149	1153	1148	1140	1131	1123	1115	1113	1114	1115
27	1119	1119	1119	1125	1140	1163	1177	1186	1186	1179	1169	1154	1136	1123	1116
28	1120	1122	1135	1154	1171	1182	1184	1179	1168	1156	1138	1122	1111	1111	1113
29	1141	1152	1144	1137	1151	1160	1156	1148	1146	1134	1124	1113	1070	1064	1071
30	1087	1089	1093	1105	1137	1143	1126	1082	1056	1041	1030	1029	**1019**	1021	1035
31	1091	1094	1097	1102	1116	1122	1124	1113	1114	1109	1097	1103	1107	1104	1103
Mean . .	1115	1116	1120	1127	1137	1149	**1154**	1151	1145	1136	1125	1118	1109	**1107**	1107
Mean† . .	**1114**	1115	1118	1126	1139	1153	**1157**	1157	1152	1144	1137	1128	1122	1117	1116

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 3600 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
1117	1120	1121	1121	1123	1121	1122	1120	1123	1130	7 5	1182	13 39	1085	1
1124	1118	1119	1123	1124	1121	1124	1125	1120	1137	6 17	1175	16 39	1116	2
1120	1119	1121	1124	1128	1128	1127	1126	1125	1131	4 23	1153	12 29	1116	3†
1124	1128	1130	1132	1133	1130	1129	1133	1129	1140	5 17	1172	13 9	1122	4
1130	1131	1131	1130	1132	1130	1132	1133	1133	1137	8 49	1164	0 49	1124	5
1133	1133	1134	1135	1137	1129	1127	1129	1129	**1149**	5 21	1200	20 49	1125	6
1102	1103	1111	1115	1117	1115	1115	1118	1123	1125	6 17	1179	11 45	1071	7
1108	1108	1113	1114	1118	1117	1117	1119	1119	1137	4 28	1191	15 33	1107	8
1117	1119	1122	1122	1122	1122	1123	1124	1121	1131	7 49	1176	0 13	1116	9
1125	1126	1127	1127	1127	1127	1126	1125	1125	1137	8 5	1177	0 9	1119	10†
1124	1123	1121	1123	1125	1127	1127	1128	1131	1138	5 37	1172	16 41	1120	11
1122	1122	1121	1121	1125	1125	1125	1126	1127	1133	7 17	1165	12 37	1120	12
1135	1133	1133	1135	1133	1133	1130	1129	1131	1141	6 29	1173	0 13	1126	13
1129	1132	1132	1133	1131	1131	1132	1131	1132	1137	6 29	1163	12 49	1124	14
1122	1121	1123	1124	1127	1128	1127	1127	1128	1138	5 41	1171	16 13	1116	15†
1132	1134	1133	1134	1133	1132	1132	1132	1136	1139	5 17	1164	0 13	1127	16†
1097	1093	1102	1106	1111	1115	1123	1124	1125	1126	4 17	1181	15 33	1088	17
1127	1127	1127	1127	1127	1126	1125	1127	1127	1141	6 57	1185	20 17	1124	18
1124	1127	1117	1119	1123	1122	1123	1128	1127	1140	7 1	1181	17 37	1113	19
1122	1125	1126	1123	1133	1130	1127	1125	1125	1134	6 15	1157	17 53	1118	20
1121	1121	1122	1123	1123	1123	1171	**1211**	1160	1143	21 33	**1247**	14 49	1120	21
1021	1035	1041	1063	1051	1040	1043	1054	1057	**1063**	4 17	1197	12 49	**978**	22
1073	1073	1074	1086	1080	1081	1082	1080	1081	1086	7 5	1136	10 53	1041	23
1088	1089	1092	1095	1096	1092	1093	1091	1090	1103	6 37	1142	0 13	1083	24
1101	1101	1101	1102	1101	1103	1104	1101	1101	1108	7 21	1135	0 13	1090	25
1105	1103	1105	1107	1108	1114	1121	1122	1116	1121	7 21	1163	0 37	1099	26
1105	1111	1112	1109	1108	1098	1096	1102	1100	1118	7 49	1165	20 37	1093	27
1109	1108	1110	1113	1114	1114	1115	1114	1114	1121	6 49	1156	0 17	1102	28
1117	1118	1118	1118	1120	1122	1121	1119	1118	1130	6 29	1171	1 17	1111	29†
1113	1113	1115	1116	1118	1120	1113	1109	1109	1125	6 5	1165	14 37	1108	30
1095	1099	1102	1101	1100	1101	1101	1105	1108	1119	6 21	1169	14 5	1093	31
1113	1113	1115	1117	1118	1117	1119	1121	1119	1128					Mean.
1123	1124	1125	1125	1127	1127	1127	1126	1126	1135					Mean.†

AUGUST.

1109	1102	1092	1099	1102	1104	1102	1104	1113	1115	7 9	1145	16 49	1089	1
1095	1092	1094	1097	1105	1111	1113	1120	1122	1113	5 33	1141	16 25	1090	2
1105	1103	1103	1103	1104	1109	1111	1110	1107	1117	5 45	1148	17 13	1102	3
1102	1105	1106	1108	1110	1111	1110	1110	1112	1118	7 5	1147	13 53	1096	4
1096	1105	1099	1096	1097	1104	1106	1108	1114	1116	7 17	1156	14 17	1090	5
1115	1116	1117	1118	1119	1120	1122	1120	1119	1126	7 29	1155	0 11	1113	6†
1119	1119	1119	1119	1119	1119	1122	1128	1123	1131	5 7	1168	14 49	1115	7†
1107	1110	1109	1109	1114	1114	1115	1116	1119	1124	5 1	1159	12 29	1101	8
1119	1119	1119	1120	1117	1123	1123	1124	1125	1132	5 33	1165	15 49	1118	9
1102	1103	1109	1110	1112	1115	1118	1118	1118	1131	5 37	1185	14 49	1100	10
1125	1125	1123	1122	1114	1111	1115	1120	1123	1125	6 17	1141	20 19	1109	11
1116	1115	1114	1117	1121	1123	1122	1120	1120	1127	5 13	1149	15 13	1113	12
1122	1122	1123	1123	1124	1124	1124	1127	1127	1134	7 13	1163	14 17	1118	13†
1131	1131	1133	1133	1133	1135	1131	1129	1133	1138	5 45	1161	22 45	1123	14
1132	1132	1135	1137	1136	1135	1135	1135	1127	1149	6 13	1200	23 5	1123	15
1130	1128	1126	1125	1127	1129	1128	1128	1129	1141	7 21	1176	17 29	1123	16
1130	1130	1128	1125	1124	1123	1123	1126	1128	1134	7 1	1165	19 45	1121	17
1133	1133	1133	1132	1134	1132	1130	1131	1135	1146	5 57	1189	1 13	1129	18
1144	1143	1143	1146	1153	1153	1147	1140	1148	**1151**	6 37	1183	12 25	1129	19
1094	1088	1078	1067	1065	1089	1123	1078	1098	1109	6 49	1210	11 53	1050	20
1045	1049	1034	1057	1056	1055	1058	1063	1065	**1069**	7 49	**1327**	10 29	1018	21
1079	1085	1082	1085	1090	1090	1095	1091	1089	1085	7 5	1112	1 41	1062	22
1090	1092	1097	1095	1097	1096	1095	1099	1097	1107	6 29	1152	0 49	1087	23
1105	1106	1105	1103	1103	1103	1106	1106	1107	1113	7 45	1141	0 29	1095	24
1111	1110	1110	1111	1112	1111	1111	1111	1110	1125	7 5	1169	1 49	1105	25†
1115	1115	1115	1115	1116	1115	1115	1115	1117	1121	6 1	1157	1 45	1103	26†
1118	1120	1125	1125	1125	1122	1120	1122	1121	1138	7 21	1192	15 1	1115	27
1112	1112	1113	1116	1120	1121	1124	1124	1125	1135	5 41	1187	12 53	1110	28
1082	1094	1082	1079	1060	1060	1075	1076	1080	1107	5 9	1170	19 45	1047	29
1061	1048	1046	1056	1073	1081	1081	1084	1088	1071	4 51	1155	12 49	**1016**	30
1101	1099	1102	1093	1091	1097	1101	1099	1099	1103	5 31	1128	18 37	1088	31
1108	1108	1107	1108	1109	1111	1113	1112	1114	1122					Mean.
1116	1116	1117	1117	1118	1118	1119	1119	1119	1127					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 36000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1099	1098	1099	1104	1116	1124	1127	1128	1122	1113	1106	1100	1092	1082	1072
2	1107	1107	1110	1117	1133	1155	1163	1165	1150	1137	1122	1104	1097	1093	1088
3	1110	1111	1120	1133	1145	1155	1157	1147	1137	1135	1125	1111	1103	1105	1103
4	1124	1120	1115	1112	1125	1144	1147	1134	1109	1095	1091	1085	1083	1074	1057
5	1110	1105	1107	1117	1128	1131	1119	1112	1095	1089	1090	1096	1099	1100	1099
6	1115	1113	1107	1107	1117	1125	1141	1149	1153	1150	1145	1140	1137	1121	1117
7	1123	1127	1127	1121	1126	1118	1125	1138	1115	1109	1098	1082	1082	1106	1101
8	1104	1112	1113	1105	1125	1150	1149	1139	1117	1108	1110	1110	1106	1096	1107
9	1135	1145	1121	1108	1124	1152	1152	1158	1148	1126	1107	1105	1106	1097	1088
10	1094	1098	1085	1084	1091	1109	1107	1099	1102	1107	1107	1107	1108	1112	1098
11	1092	1090	1087	1082	1088	1092	1105	1112	1120	1113	1112	1108	1108	1106	1103
12	1107	1106	1105	1112	1123	1143	1149	1158	1155	1148	1136	1126	1120	1118	1113
13	1114	1115	1118	1130	1152	1151	1149	1152	1141	1137	1130	1123	1119	1109	1112
14	1107	1106	1102	1105	1124	1131	1134	1143	1146	1145	1133	1123	1115	1114	1115
15	1111	1109	1101	1108	1125	1134	1143	1150	1149	1145	1128	1129	1122	1115	1110
16†	1111	1113	1115	1122	1136	1147	1158	1161	1159	1152	1140	1132	1123	1118	1120
17†	1116	1116	1118	1130	1146	1166	1175	1178	1172	1160	1148	1133	1124	1119	1117
18	1113	1114	1113	1120	1134	1164	1185	**1190**	1184	1177	1166	1149	1136	1130	1126
19	1119	1122	1118	1119	1129	1151	1167	1171	1164	1155	1144	1134	1128	1125	1121
20	1115	1115	1110	1110	1118	1132	1147	1151	1146	1140	1125	1121	1121	1121	1113
21	1108	1110	1103	1101	1112	1128	1144	1136	1133	1137	1134	1129	1124	1122	1120
22†	1119	1118	1116	1121	1134	1153	1168	1173	1171	1163	1149	1137	1131	1127	1124
23†	1119	1118	1115	1121	1135	1149	1153	1156	1154	1151	1145	1136	1131	1131	1129
24†	1127	1126	1122	1131	1141	1161	1172	1182	1175	1166	1155	1136	1125	1118	1112
25	1120	1117	1105	1103	1109	1116	1125	1139	1146	1145	1134	1123	1115	1115	1110
26	1131	1123	1102	1099	1118	1135	1140	1148	1147	1136	1119	1104	1104	1105	1098
27	1106	1105	1103	1108	1123	1143	1154	1155	1147	1137	1128	1125	1125	1125	1123
28	1112	1106	1103	1105	1117	1130	1143	1151	1147	1127	1114	1109	1105	1105	1099
29	1114	1112	1114	1125	1137	1146	1153	1163	1155	1139	1116	1105	1094	1079	1074
30	1108	1114	1114	1121	1130	1137	1147	1164	1169	1157	1144	1136	1131	1125	1118
Mean . .	1113	1113	1110	1113	1125	1139	1146	**1150**	1144	1137	1127	1119	1114	1110	1106
Mean† . .	1119	1118	1117	1125	1138	1155	1165	**1170**	1166	1158	1147	1135	1127	1123	1121

OCTOBER.

1†	1107	1109	1110	1114	1122	1133	1145	1150	1145	1133	1122	1118	1116	1119	1119
2	1123	1123	1123	1121	1131	1146	1153	1153	1146	1134	1129	1123	1118	1115	1117
3	1120	1113	1123	1117	1123	1138	1142	1148	1143	1135	1127	1122	1128	1117	1113
4†	1117	1125	1130	1136	1143	1151	1154	1150	1148	1141	1140	1132	1123	1122	1119
5	1126	1127	1129	1138	1161	1166	1174	1176	1168	1157	1141	1133	1136	1140	1137
6	1154	1144	1128	1127	1145	1173	1185	1165	1144	1121	1110	1118	1122	1122	1121
7	1115	1117	1119	1128	1142	1155	1167	1164	1159	1141	1109	1101	1085	1076	1087
8	1076	1074	1082	1074	1081	1090	1096	1095	1089	1061	1045	1043	1050	1060	1073
9	1119	1119	1120	1127	1141	1151	1159	1156	1145	1139	1132	1125	1124	1122	1119
10	1103	1101	1100	1113	1135	1151	1161	1156	1150	1140	1085	1074	1079	1084	1083
11	1096	1100	1106	1111	1121	1139	1155	1160	1151	1110	1096	1089	1092	1102	1098
12	1105	1107	1109	1115	1133	1145	1151	1149	1140	1125	1116	1097	1013	865	829
13	1009	1006	1015	1027	1045	1058	1081	1083	1078	1073	1069	1062	1046	1031	1033
14	1064	1061	1063	1069	1080	1101	1114	1121	1120	1113	1106	1098	1093	1092	1090
15	1091	1091	1093	1102	1119	1131	1145	1147	1144	1134	1124	1115	1106	1105	1103
16	1108	1101	1104	1115	1132	1144	1155	1154	1145	1138	1131	1120	1117	1114	1111
17†	1112	1111	1113	1121	1137	1150	1162	1162	1153	1144	1134	1126	1118	1120	1117
18	1115	1114	1116	1123	1138	1157	1171	1171	1162	1148	1133	1127	1127	1127	1124
19	1119	1119	1121	1129	1141	1150	1160	1163	1151	1134	1130	1128	1123	1123	1121
20	1118	1124	1134	1143	1154	1164	1169	1164	1153	1145	1139	1133	1129	1127	1127
21†	1123	1125	1133	1144	1157	1172	1181	1183	1172	1159	1149	1141	1134	1128	1128
22	1127	1131	1138	1148	1161	1179	1189	1247	**1290**	1198	1079	978	956	1021	1043
23	1073	1079	1070	1045	1043	1043	1029	1029	1014	1008	1003	1016	1042	1048	1053
24	1077	1079	1085	1092	1096	1107	1115	1112	1105	1090	1085	1088	1088	1085	1076
25	1087	1087	1094	1108	1122	1134	1142	1136	1125	1110	1098	1097	1093	1091	1098
26	1090	1093	1097	1103	1111	1124	1133	1132	1120	1111	1113	1107	1096	1097	1103
27	1106	1110	1114	1117	1129	1145	1154	1155	1148	1137	1127	1120	1116	1114	1111
28	1107	1106	1105	1111	1117	1132	1141	1142	1141	1134	1129	1026	1124	1119	1116
29	1117	1116	1119	1128	1129	1141	1151	1154	1148	1143	1137	1129	1125	1125	1124
30	1120	1119	1120	1126	1141	1147	1153	1159	1152	1138	1128	1121	1120	1120	1116
31†	1112	1114	1123	1139	1155	1168	1176	1168	1154	1147	1137	1130	1127	1125	1122
Mean . .	1105	1105	1108	1113	1125	1138	1147	**1149**	1142	1127	1113	1104	1099	1095	1095
Mean† . .	**1114**	1117	1122	1131	1143	1155	**1164**	1163	1154	1145	1136	1129	1124	1123	1121

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 36000γ PLUS TABULAR QUANTITIES.

Hours.									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
1071	1075	1099	1088	1090	1094	1098	1104	1110	1101	6 17	1152	14 49	1061	1
1091	1088	1092	1101	1107	1110	1110	1110	1110	1115	6 57	1169	14 29	1087	2
1093	1097	1106	1106	1107	1108	1106	1108	1116	1119	5 57	1161	15 37	1092	3
1049	1055	1078	1083	1079	1085	1095	1109	1105	**1098**	5 49	1152	14 45	**1045**	4
1100	1104	1107	1110	1110	1111	1108	1109	1110	1107	5 17	1137	9 37	1088	5
1118	1122	1148	1146	1145	1138	1140	1132	1123	1131	16 45	1168	2 45	1102	6
1088	1090	1095	1095	1096	1116	1110	1101	1099	1107	7 3	1143	11 37	1065	7
1120	1117	1115	1113	1113	1121	1124	1122	1117	1118	5 21	1161	13 39	1087	8
1104	1095	1103	1102	1112	1103	1089	1094	1091	1114	7 45	1169	13 53	1078	9
1093	1101	1116	1116	1130	1092	1091	1112	1096	1102	18 43	1155	21 29	1067	10
1106	1100	1101	1119	1108	1098	1105	1117	1108	1104	17 57	1129	2 57	1076	11
1105	1105	1114	1116	1111	1109	1109	1110	1111	1121	6 57	1162	15 53	1099	12
1110	1107	1105	1105	1109	1110	1113	1109	1106	1122	4 25	1161	17 5	1102	13
1112	1112	1115	1119	1116	1115	1113	1134	1123	1121	8 17	1148	2 29	1101	14
1109	1108	1118	1111	1111	1111	1112	1113	1112	1120	6 53	1155	1 45	1099	15
1118	1117	1117	1117	1117	1116	1120	1118	1117	1128	7 9	1163	0 13	1110	16†
1108	1105	1105	1116	1116	1111	1110	1109	1110	1129	7 1	1181	16 37	1102	17†
1122	1117	1113	1116	1118	1118	1121	1121	1116	**1136**	6 29	**1193**	0 13	1112	18
1119	1119	1119	1116	1113	1116	1116	1116	1115	1130	6 33	1176	19 21	1112	19
1111	1109	1107	1113	1122	1111	1109	1111	1111	1120	6 33	1155	17 21	1101	20
1118	1117	1117	1114	1113	1111	1115	1115	1113	1120	6 19	1151	2 9	1099	21
1122	1118	1117	1117	1117	1121	1117	1115	1118	1132	6 49	1175	1 49	1114	22†
1129	1127	1127	1124	1126	1125	1123	1125	1127	1132	7 13	1159	2 9	1113	23†
1112	1113	1113	1113	1114	1116	1118	1118	1119	1133	6 49	1185	17 1	1110	24
1109	1111	1117	1116	1129	1119	1121	1119	1146	1121	23 1	1159	2 33	1102	25
1098	1112	1107	1114	1118	1113	1105	1105	1108	1116	6 57	1152	2 49	1088	26
1119	1122	1121	1119	1129	1118	1111	1113	1113	1124	6 37	1158	2 9	1102	27
1097	1092	1097	1107	1114	1112	1163	1114	1115	1116	7 29	1155	16 17	1090	28
1064	1079	1093	1101	1099	1098	1098	1102	1106	1111	7 9	1167	14 53	1052	29
1111	1108	1100	1087	1093	1096	1093	1100	1106	1121	7 33	1172	17 45	1085	30
1104	1105	1109	1111	1113	1111	1112	1113	1113	1119					Mean.
1118	**1116**	1116	1117	1118	1118	1118	1117	1118	1131					Mean.†

OCTOBER.

1117	1114	1112	1114	1119	1120	1123	1125	1127	1123	7 17	1152	0 13	1106	1†
1116	1115	1116	1124	1120	1119	1125	1137	1132	1127	6 27	1156	13 51	1105	2
1110	1110	1112	1112	1113	1119	1117	1116	1116	1122	7 9	1150	1 13	1107	3
1119	1119	1120	1120	1119	1119	1121	1123	1124	1130	5 54	1157	15 49	1115	4†
1139	1138	1126	1129	1127	1127	1142	1131	1129	**1142**	7 15	1179	20 9	1119	5
1120	1118	1117	1117	1117	1116	1117	1115	1115	1129	5 51	1190	10 13	1105	6
1084	1079	1085	1100	1087	1089	1090	1087	1084	1110	6 6	1170	13 49	1069	7
1083	1087	1088	1099	1106	1105	1107	1113	1115	1084	23 41	1119	10 37	1041	8
1116	1107	1095	1090	1101	1102	1116	1103	1101	1122	6 29	1161	17 49	1084	9
1073	1101	1095	1101	1111	1104	1105	1103	1105	1109	8 45	1180	12 33	1047	10
1097	1095	1095	1098	1099	1099	1099	1101	1102	1109	6 49	1164	11 9	1084	11
831	**811**	868	993	1003	1020	1001	980	1005	**1027**	10 29	1162	16 9	**802**	12
1041	1069	1040	1044	1052	1057	1059	1062	1063	1051	7 17	1092	1 5	1000	13
1085	1087	1088	1088	1095	1090	1091	1095	1096	1092	7 7	1125	1 53	1059	14
1101	1099	1097	1099	1105	1105	1106	1106	1110	1112	6 29	1150	0 11	1090	15
1108	1107	1106	1115	1113	1109	1109	1111	1110	1120	6 29	1162	1 33	1099	16
1115	1113	1111	1114	1115	1114	1113	1115	1115	1125	6 31	1165	1 49	1109	17†
1121	1118	1117	1117	1117	1117	1117	1122	1120	1130	6 21	1172	1 21	1113	18
1121	1123	1123	1121	1122	1125	1122	1122	1119	1129	6 53	1165	23 57	1117	19
1121	1124	1117	1112	1112	1123	1125	1123	1122	1133	6 29	1171	17 53	1109	20
1123	1120	1119	1121	1122	1123	1124	1123	1124	1139	6 31	1186	16 29	1116	21†
1043	1043	1048	1055	1062	1064	1067	1073	1075	1099	7 39	**1350**	11 59	940	22
1042	1049	1064	1073	1081	1071	1085	1089	1077	1051	21 29	1102	10 31	991	23
1084	1083	1081	1080	1079	1078	1090	1096	1091	1089	6 15	1116	14 1	1071	24
1096	1094	1097	1096	1096	1107	1101	1102	1094	1105	5 37	1144	0 11	1080	25
1103	1102	1102	1110	1112	1113	1106	1105	1105	1108	6 45	1136	12 41	1087	26
1106	1105	1107	1112	1105	1109	1111	1111	1108	1120	6 49	1157	17 5	1102	27
1110	1111	1113	1115	1115	1116	1118	1119	1119	1120	6 29	1145	1 43	1103	28
1119	1118	1125	1127	1125	1126	1136	1119	1112	1129	6 31	1155	22 17	1109	29
1111	1112	1121	1116	1112	1111	1109	1119	1116	1125	7 1	1160	15 57	1106	30
1119	1119	1119	1120	1121	1120	1120	1123	1122	1133	6 17	1181	0 11	1110	31†
1093	1093	1094	1101	1103	1104	1105	1105	1105	1111					Mean.
1119	1117	1116	1118	1119	1119	1120	1122	1123	1130					Mean.†

*See footnote on page 101.

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

NOVEMBER. 36000γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1121	1124	1128	1137	1148	1159	1168	1164	1155	1147	1139	1132	1128	1129	1128
2†	1125	1128	1133	1143	1156	1165	1182	1180	1166	1152	1141	1135	1129	1129	1128
3	1124	1125	1128	1138	1147	1154	1160	1159	1150	1140	1133	1126	1124	1128	1126
4	1127	1129	1132	1137	1140	1146	1152	1153	1149	1146	1143	1140	1134	1132	1130
5	1118	1120	1124	1127	1139	1150	1158	1159	1155	1149	1148	1150	1148	1141	1139
6	1134	1137	1143	1147	1153	1160	1163	1165	1156	1148	1144	1139	1136	1132	1128
7†	1140	1144	1153	1163	1176	1184	1188	1181	1170	1160	1151	1144	1141	1141	1139
8	1136	1141	1153	1168	1182	1195	**1219**	1203	1179	1161	1152	1146	1144	1138	1135
9	1135	1135	1141	1149	1162	1175	1181	1179	1163	1153	1150	1140	1141	1141	1139
10	1147	1149	1155	1167	1173	1180	1184	1179	1167	1153	1140	1130	1126	1127	1127
11	1131	1136	1145	1150	1167	1175	1177	1172	1160	1150	1141	1133	11 6	1122	1122
12	1129	1129	1133	1141	1155	1167	1174	1175	1161	1149	1144	1137	1126	1120	1115
13	1123	1122	1129	1135	1147	1159	1164	1163	1153	1143	1137	1128	1121	1124	1125
14†	1125	1130	1139	1146	1154	1165	1173	1173	1168	1163	1156	1146	1139	1136	1136
15	1135	1140	1150	1161	1167	1174	1180	1175	1163	1152	1145	1140	1134	1131	1130
16	1135	1136	1143	1154	1167	1181	1184	1181	1171	1159	1150	1146	1145	1143	1139
17	1141	1145	1152	1161	1169	1181	1179	1174	1171	1167	1156	1149	1144	1145	1142
18	1144	1147	1155	1164	1174	1192	1204	1206	1201	1182	1162	1155	1152	1146	1118
19	1099	1106	1111	1121	1131	1130	1129	1128	1116	1109	1104	1105	1108	1113	1110
20	1117	1117	1122	1131	1139	1158	1168	1165	1157	1141	1117	1114	1117	1111	1106
21	1120	1123	1129	1141	1150	1159	1167	1166	1160	1150	1137	1123	1113	1117	1119
22†	1122	1124	1131	1143	1155	1162	1161	1157	1152	1147	1139	1131	1127	1127	1126
23	1127	1130	1133	1139	1150	1171	1176	1174	1171	1160	1145	1135	1130	1128	1128
24	1134	1138	1144	1148	1157	1165	1170	1170	1170	1161	1145	1134	1132	1132	1126
25†	1133	1133	1135	1141	1146	1153	1163	1161	1158	1152	1143	1139	1135	1138	1137
26	1144	1145	1150	1157	1165	1171	1174	1173	1168	1162	1159	1153	1149	1151	1151
27	1146	1148	1155	1164	1174	1181	1189	1186	1178	1169	1160	1153	1148	1149	1150
28	1136	1138	1144	1151	1159	1167	1171	1169	1161	1157	1152	1149	1145	1146	1147
29	1148	1155	1165	1176	1176	1181	1183	1180	1166	1157	1151	1146	1141	1137	1127
30	1123	1134	1136	1133	1137	1146	1143	1131	1120	1111	1101	**1090**	1092	1108	1114
Mean . .	1131	1134	1140	1148	1157	1167	**1173**	1170	1161	1152	1143	1136	1133	1132	1130
Mean† . .	1129	1132	1138	1147	1157	1166	**1173**	1170	1163	1155	1146	1139	1134	1134	1133

DECEMBER.

1	1126	1133	1141	1148	1152	1154	1153	1154	1156	1152	1135	1105	1079	1097	1112
2	1126	1136	1142	1150	1161	1169	1157	1158	1159	1152	1148	1136	1126	1125	1123
3	1133	1137	1142	1150	1154	1152	1153	1155	1151	1141	1131	1129	1131	1135	1133
4†	1138	1140	1143	1147	1154	1162	1168	1166	1162	1153	1152	1149	1148	1143	1140
5	1143	1145	1152	1159	1162	1172	1180	1175	1157	1147	1153	1154	1152	1137	1132
6	1142	1145	1148	1154	1159	1164	1176	1175	1170	1154	1143	1139	1135	1139	1132
7	1134	1137	1140	1146	1148	1151	1156	1151	1153	1145	1134	1129	1129	1134	1132
8	1140	1143	1148	1155	1162	1166	1175	1177	1169	1156	1143	1137	1141	1143	1142
9	1132	1132	1137	1146	1155	1163	1173	1165	1159	1150	1140	1132	1125	1123	1120
10	1135	1138	1143	1148	1156	1162	1166	1160	1154	1142	1130	1130	1124	1122	1125
11	1132	1132	1134	1138	1144	1159	1163	1163	1154	1147	1145	1139	1136	1135	1135
12	1140	1141	1144	1149	1158	1168	1169	1173	1172	1165	1158	1153	1148	1143	1142
13	1155	1155	1156	1160	1165	1183	1198	1204	**1208**	1189	1160	1128	1111	1111	1069
14	1113	1108	1103	1113	1101	1105	1135	1139	1132	1122	1124	1135	1121	1115	1109
15	1138	1139	1134	1132	1140	1150	1159	1149	1138	1131	1118	1116	1110	1107	1109
16	1119	1121	1125	1131	1134	1140	1149	1152	1147	1137	1126	1113	1113	1119	1118
17	1122	1123	1125	1127	1134	1151	1165	1162	1149	1138	1123	1106	1099	1092	1114
18	1119	1122	1124	1128	1133	1135	1139	1135	1117	1093	1081	1081	1079	1074	1066
19	1115	1122	1120	1111	1111	1101	1105	1098	1090	1087	1083	1086	1090	1090	1098
20†	1117	1120	1122	1127	1132	1138	1143	1149	1147	1140	1136	1135	1130	1129	1125
21†	1133	1134	1136	1140	1143	1149	1156	1161	1160	1152	1146	1138	1133	1135	1137
22	1140	1143	1145	1150	1154	1160	1169	1176	1171	1164	1158	1155	1152	1145	1142
23	1141	1143	1146	1149	1155	1166	1165	1165	1159	1150	1144	1138	1133	1134	1140
24†	1141	1144	1147	1152	1162	1172	1181	1176	1165	1149	1141	1143	1145	1146	1146
25	1145	1149	1153	1159	1163	1174	1181	1180	1172	1162	1153	1144	1144	1145	1145
26	1145	1147	1147	1149	1160	1171	1176	1175	1172	1163	1149	1135	1131	1131	1126
27†	1140	1142	1143	1147	1157	1164	1170	1170	1163	1154	1151	1150	1147	1144	1142
28	1143	1144	1146	1147	1151	1160	1167	1167	1163	1159	1155	1151	1148	1144	1137
29	1101	1109	1110	1112	1125	1115	1141	1148	1143	1132	1124	1124	1121	1117	1113
30	1128	1129	1129	1134	1146	1154	1168	1173	1167	1159	1150	1146	1139	1135	1135
31	1136	1139	1139	1145	1153	1169	1189	1182	1180	1169	1147	1141	1147	1147	1141
Mean . .	1133	1135	1138	1142	1148	1155	**1163**	1162	1157	1147	1138	1132	1128	1127	**1125**
Mean† . .	**1134**	1136	1138	1143	1149	1157	1164	**1165**	1159	1150	1145	1143	1141	1139	1138

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

NOVEMBER. 36000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M	γ	
1126	1123	1123	1124	1125	1125	1126	1126	1124	1135	6 11	1170	0 13	1120	1
1126	1123	1123	1124	1125	1127	1126	1126	1124	1138	6 17	1185	16 29	1121	2†
1124	1123	1124	1125	1126	1127	1127	1125	1126	1133	6 29	1161	16 45	1121	3
1126	1128	1129	1130	1125	1133	1125	1136	1117	1135	6 29	1159	22 5	1115	4
1138	1131	1128	1129	1130	1133	1135	1136	1134	1139	6 29	1161	0 13	1115	5
1123	1123	1127	1132	1133	1134	1134	1138	1138	1140	6 31	1169	16 1	1120	6
1136	1134	1134	1134	1135	1135	1133	1133	1134	1149	5 41	1189	16 49	1132	7†
1129	1125	1126	1130	1131	1129	1131	1164	1133	1152	6 45	**1224**	16 33	1122	8
1134	1133	1138	1136	1136	1143	1141	1144	1147	1148	5 57	1183	15 49	1128	9
1126	1125	1127	1126	1127	1126	1127	1127	1130	1143	5 53	1188	16 29	1122	10
1122	1121	1121	1124	1130	1132	1133	1131	1131	1140	5 55	1179	13 29	1120	11
1113	1111	1113	1115	1118	1120	1118	1125	1125	1134	6 29	1178	15 41	1107	12
1123	1121	1122	1124	1126	1125	1124	1124	1125	1133	6 17	1167	12 1	1117	13
1133	1132	1132	1133	1132	1134	1134	1132	1133	1144	5 37	1174	0 29	1124	14†
1129	1128	1126	1128	1134	1135	1134	1135	1135	1144	5 53	1183	17 13	1125	15
1136	1132	1131	1135	1141	1144	1148	1144	1138	1149	6 27	1185	17 5	1128	16
1139	1137	1138	1141	1142	1143	1143	1143	1143	1152	5 31	1183	16 29	1135	17
1113	1111	1109	1110	1097	1094	1092	1100	1102	1142	7 25	1213	21 1	**1086**	18
1110	1106	1110	1114	1114	1118	1123	1119	1119	**1115**	3 57	1133	0 11	1097	19
1116	1109	1107	1111	1114	1114	1117	1123	1122	1126	6 17	1169	14 23	1102	20
1111	1112	1112	1113	1113	1115	1124	1122	1122	1130	5 53	1168	14 41	1107	21
1122	1118	1120	1121	1122	1123	1123	1126	1127	1134	5 17	1164	16 29	1117	22†
1127	1125	1126	1128	1129	1131	1131	1131	1131	1040	6 13	1178	16 35	1124	23
1121	1121	1118	1119	1122	1129	1127	1133	1134	1140	6 59	1172	17 7	1117	24
1135	1135	1136	1138	1139	1140	1140	1141	1143	1142	6 13	1165	0 53	1131	25†
1149	1149	1149	1147	1147	1150	1149	1146	1144	**1154**	6 1	1176	22 29	1137	26
1149	1148	1147	1144	1139	1130	1131	1135	1136	1154	6 13	1191	20 29	1126	27
1147	1146	1145	1146	1145	1146	1149	1145	1145	1151	5 29	1173	0 13	1134	28
1113	1100	1097	1103	1103	1110	1113	1115	1121	1140	5 37	1185	16 37	1095	29
1114	1116	1118	1122	1121	1121	1116	1122	1122	1121	5 17	1152	11 17	1087	30
1127	**1125**	1125	1127	1127	1129	1129	1132	1130	1140					Mean.
1130	**1128**	1129	1130	1131	1132	1131	1132	1132	1141					Mean.†

DECEMBER.

1115	1118	1118	1118	1119	1117	1119	1121	1122	1128	8 37	1158	12 9	1073	1
1123	1128	1128	1129	1136	1139	1132	1130	1130	1139	5 29	1170	14 33	1117	2
1133	1133	1132	1133	1135	1137	1136	1136	1136	1139	6 53	1157	10 37	1127	3
1136	1136	1137	1140	1141	1140	1140	1139	1139	1147	6 21	1170	16 13	1133	4†
1132	1132	1131	1129	1124	1144	1136	1132	1135	1146	6 13	1183	19 17	1121	5
1123	1135	1127	1129	1125	1128	1129	1131	1132	1143	6 5	1182	15 17	1119	6
1130	1125	1130	1132	1133	1134	1135	1137	1139	1138	5 41	1158	16 33	1123	7
1141	1137	1134	1131	1143	1135	1131	1128	1128	1146	6 49	1178	22 33	1127	8
1128	1130	1135	1129	1129	1127	1130	1139	1138	1139	5 41	1176	13 49	1119	9
1124	1132	1134	1135	1139	1138	1137	1136	1132	1139	5 29	1169	12 49	1118	10
1138	1135	1137	1137	1138	1139	1137	1139	1139	1142	6 49	1164	1 57	1131	11
1141	1141	1141	1141	1141	1151	1154	1154	1154	1152	6 49	1174	0 13	1139	12
1067	1073	1056	1067	1063	**1053**	1069	1081	1102	1123	7 57	**1213**	15 21	**1025**	13
1113	1110	1110	1114	1116	1119	1121	1124	1127	1118	10 41	1151	5 13	1086	14
1101	1105	1107	1131	1119	1116	1116	1114	1115	1124	5 49	1167	15 5	1095	15
1116	1115	1116	1113	1115	1118	1118	1119	1120	1125	6 53	1153	11 29	1105	16
1104	1112	1119	1119	1126	1115	1115	1116	1117	1124	5 33	1169	13 25	1087	17
1069	1076	1087	1091	1108	1112	1114	1106	1109	**1104**	6 49	1146	14 13	1059	18
1108	1115	1117	1119	1119	1115	1116	1117	1117	1106	1 27	1130	10 21	1080	19
1125	1125	1127	1129	1129	1130	1130	1131	1131	1131	7 13	1150	0 17	1116	20†
1136	1135	1135	1137	1137	1138	1141	1142	1141	1141	7 49	1163	11 49	1132	21†
1143	1142	1144	1144	1143	1144	1144	1140	1139	1150	7 13	1178	22 37	1137	22
1140	1140	1141	1139	1139	1139	1140	1141	1141	1145	5 21	1179	11 13	1132	23
1145	1146	1146	1143	1143	1147	1150	1147	1142	1151	5 53	1182	10 17	1137	24†
1143	1143	1144	1145	1149	1148	1148	1146	1145	**1153**	6 13	1183	16 13	1141	25
1120	1126	1130	1131	1135	1136	1137	1140	1140	1145	6 5	1178	15 13	1118	26
1142	1141	1141	1141	1143	1144	1144	1145	1144	1149	6 41	1173	0 13	1139	27†
1149	1129	1127	1124	1094	1095	1100	1091	1095	1136	6 5	1170	19 45	1069	28
1109	1112	1113	1117	1120	1124	1126	1126	1126	1123	7 1	1149	0 1	1100	29
1134	1132	1131	1132	1131	1133	1131	1132	1133	1141	7 5	1174	0 33	1125	30
1136	1135	1131	1131	1135	1138	1145	1147	1139	..	5 41	1194	17 29	1127	31
1125	1126	1126	1127	1128	1129	1130	1130	1131	1137					Mean.
1137	1137	1137	1138	1139	1140	1141	1141	1139	1144					Mean.†

*See footnote on page 101.

†Five international quiet days.

JANUARY.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)
17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	619	621	621	627	628	621	616	613	610	608	606	608	613	613	611
2	608	607	602	612	615	614	601	595	595	596	595	597	599	601	604
3	605	603	601	607	613	602	588	585	592	600	602	602	600	600	601
4	605	606	606	609	613	610	602	588	584	590	587	593	600	603	603
5	604	604	602	605	613	618	620	618	613	603	595	593	598	602	602
6	609	609	605	609	615	613	613	617	622	619	611	610	609	606	609
7	614	613	612	615	618	616	617	618	620	611	606	611	605	601	605
8	615	616	61	615	618	620	620	621	630	630	625	617	611	618	620
9†	622	622	623	625	617	602	603	607	610	610	614	617	615	619	621
10†	625	627	627	637	637	605	584	596	605	610	616	622	615	614	615
11	615	618	619	627	630	614	601	605	614	605	605	611	610	611	613
12	616	618	620	632	634	600	579	591	606	609	614	620	619	618	620
13	623	621	619	624	631	626	612	617	618	613	615	622	623	620	623
14	614	615	617	627	631	617	599	594	602	601	599	603	605	607	608
15	609	607	608	614	617	610	604	598	598	603	608	613	614	618	623
16	626	626	630	641	644	629	612	596	601	613	614	616	618	625	629
17	628	628	627	637	647	633	615	610	611	613	619	623	621	624	625
18	622	621	621	627	630	618	599	609	618	616	611	608	605	611	617
19	615	613	612	620	622	604	587	597	605	600	604	605	605	605	608
20	609	608	610	616	618	602	587	588	590	598	608	613	607	604	608
21†	614	615	618	623	619	603	592	596	592	609	617	618	612	611	615
22†	620	619	620	625	626	615	601	597	601	609	614	620	617	611	613
23†	619	620	622	628	627	605	594	599	619	616	621	623	620	616	618
24	628	629	633	642	642	633	611	593	597	604	619	629	629	625	628
25	622	623	624	628	631	615	603	606	613	614	621	625	624	621	619
26	620	620	616	626	627	609	587	581	591	602	615	621	622	619	619
27	619	621	621	624	629	621	607	607	613	617	621	623	621	618	618
28	919	619	623	625	624	615	599	593	605	616	618	618	613	613	616
29	620	620	617	625	635	625	604	600	623	627	626	624	619	619	621
30	621	621	622	628	628	612	599	614	636	637	626	614	616	621	626
31	624	622	625	632	621	610	615	624	629	623	624	624	621	622	625
Mean .	617	617	617	624	626	614	602	602	608	610	612	614	613	613	616
Mean† .	620	621	622	628	625	606	595	599	605	611	617	620	616	614	617

FEBRUARY.

1	620	618	615	622	622	615	611	620	630	631	631	626	619	615	620
2	619	618	617	619	617	601	593	609	628	368	637	626	613	614	620
3	622	619	620	621	620	617	614	618	625	627	627	627	621	615	620
4	619	621	611	617	612	600	604	619	637	943	635	623	611	608	618
5	618	618	619	618	617	604	598	613	630	639	633	625	615	609	615
6†	619	620	619	617	609	599	588	592	609	622	630	629	618	607	610
7†	618	621	622	611	595	580	575	582	595	609	617	617	613	607	615
8	617	619	621	612	612	604	593	589	599	613	624	630	625	619	611
9	626	630	633	632	625	611	600	602	616	623	627	627	627	625	618
10	630	631	635	641	636	631	622	616	620	628	629	628	630	629	627
11	634	637	640	646	648	641	631	631	638	636	628	621	617	621	631
12	628	628	627	627	621	616	617	632	630	626	622	620	619	621	627
13	622	622	625	628	625	619	617	616	625	627	622	613	606	609	524
14	622	621	620	621	613	608	609	613	617	617	613	609	603	609	617
15	621	621	622	622	616	603	602	605	607	610	613	610	604	607	617
16	622	623	622	621	615	601	599	605	612	618	620	614	605	604	613
17	613	613	613	607	600	595	594	602	611	617	620	616	610	610	614
18	621	623	622	614	604	600	601	608	619	627	628	624	614	611	620
19	625	629	632	631	628	623	621	624	633	642	644	639	628	624	630
20	631	633	634	631	624	608	606	609	621	630	639	638	629	623	625
21†	623	627	629	622	610	600	599	604	611	617	620	616	611	609	612
22†	608	610	613	611	604	590	579	584	591	596	600	599	599	604	608
23†	616	620	624	623	615	606	601	603	611	620	624	624	621	621	626
24	637	639	642	640	637	631	633	635	640	647	654	651	645	642	646
25	647	650	651	643	632	622	624	633	644	653	655	655	651	646	646
26	643	645	647	637	623	617	617	617	619	624	628	629	627	624	627
27	627	631	633	627	615	602	598	602	608	618	620	619	619	624	627
28	629	631	634	630	624	616	613	617	619	622	625	620	618	621	624
Mean .	624	626	627	625	619	609	606	610	619	626	627	624	619	617	622
Mean† .	617	620	621	617	606	595	589	593	603	613	618	617	613	610	614

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
612	610	610	613	611	610	608	610	606	613	3 26	630	22 46	603	1
605	601	602	604	603	603	602	602	602	603	3 25	615	7 53	593	2
602	602	602	603	603	602	602	601	600	**601**	3 41	614	**7 45**	584	3
605	604	605	607	608	593	606	601	598	601	3 57	614	7 29	583	4
604	606	606	608	609	609	608	605	607	607	5 45	620	10 37	588	5
610	609	611	612	612	612	612	611	611	611	7 39	623	3 9	605	6
610	615	620	617	620	619	617	614	612	613	7 19	621	12 49	597	7
620	621	621	621	623	623	623	623	621	620	8 19	631	12 9	611	8
620	621	621	624	625	625	625	625	624	618	18 33	626	5 1	600	9†
613	613	614	616	617	617	616	615	615	615	3 29	639	6 1	583	10†
613	613	614	614	613	615	615	615	615	614	3 19	631	6 9	601	11
620	620	624	624	624	624	625	624	624	617	3 29	636	5 53	**574**	12
619	617	621	620	620	619	619	615	614	619	4 9	632	6 1	610	13
609	609	610	610	612	611	611	610	607	609	3 29	631	6 49	594	14
623	623	626	627	628	627	627	627	628	616	18 9	629	7 9	597	15
631	629	630	630	630	629	628	628	629	624	3 29	645	7 9	595	16
625	626	628	627	626	627	625	623	623	**625**	4 9	**648**	6 29	609	17
617	616	618	617	618	618	617	615	615	616	3 17	631	7 9	597	18
609	610	612	611	610	610	610	610	609	608	3 49	622	7 9	584	19
608	612	613	613	613	613	613	614	615	607	3 33	619	7 9	587	20
616	616	618	618	618	620	619	618	618	613	3 29	624	7 1	590	21†
614	615	615	616	617	617	617	616	616	615	3 9	627	7 9	597	22†
619	620	621	622	622	622	623	623	624	619	3 9	629	7 13	593	23†
628	628	628	629	628	627	625	625	624	624	3 17	643	7 9	592	24
616	617	619	619	620	619	618	618	617	619	3 1	634	7 9	603	25
619	620	620	618	618	619	618	619	619	614	3 19	628	6 49	579	26
617	617	617	618	618	618	619	618	618	618	3 49	630	7 17	606	27
617	617	618	618	618	619	619	618	617	616	2 49	625	7 29	590	28
620	618	620	620	620	619	619	618	619	620	3 57	635	6 29	596	29
625	624	624	625	624	622	622	623	623	622	3 21	638	6 33	597	30
625	625	626	627	626	625	624	624	623	623	3 1	633	4 42	609	31
616	616	617	618	618	617	617	617	616	615					Mean.
616	617	618	619	620	620	620	619	619	616					Mean.†

FEBRUARY.

622	623	623	623	623	622	621	620	619	621	8 9	631	6 9	609	1
622	622	624	624	624	623	622	622	623	620	9 9	639	6 9	592	2
621	621	623	624	625	626	626	627	621	622	**10 9**	628	6 0	613	3
619	619	621	622	623	623	620	620	620	619	8 29	644	5 29	599	4
616	618	621	621	622	622	621	619	619	619	8 49	640	5 49	597	5
612	613	616	617	618	617	618	618	619	614	10 40	630	6 32	584	6†
612	913	615	617	617	616	617	617	617	609	1 36	622	6 9	**573**	7†
618	617	620	623	623	624	622	621	625	616	10 29	631	6 9	587	8
625	625	627	630	630	631	627	627	630	624	3 9	634	6 9	599	9
633	632	634	634	635	635	634	633	633	631	3 9	642	7 0	605	10
628	627	627	627	628	627	628	629	630	631	3 9	649	11 29	616	11
622	622	621	622	624	625	620	617	620	622	8 21	631	4 13	615	12
617	619	620	622	622	622	621	622	621	620	3 13	628	12 9	602	13
620	620	622	622	623	622	622	622	621	617	18 19	623	12 49	602	14
619	618	620	621	621	621	621	620	619	615	2 9	623	5 9	601	15
609	610	612	614	614	612	611	610	610	612	1 9	623	5 31	596	16
615	615	618	619	620	618	620	619	618	613	9 19	621	5 53	592	17
619	620	624	626	626	626	627	627	628	619	9 96	629	5 39	599	18
629	630	633	634	633	632	631	631	632	631	9 1	**645**	6 9	619	19
626	625	627	627	628	627	627	625	626	626	10 9	639	6 9	604	20
613	611	612	613	614	613	612	612	613	613	2 19	629	5 9	598	21†
610	610	611	614	616	617	617	618	619	**605**	23 56	619	6 9	578	22†
627	629	629	631	633	633	634	634	635	623	23 56	636	6 9	599	23†
650	650	652	652	653	653	652	653	650	**645**	10 17	655	5 9	630	24
646	645	645	645	645	645	645	644	644	644	9 29	**659**	5 29	620	25
629	629	628	629	628	630	630	629	628	628	2 9	647	5 18	611	26
627	626	627	628	629	628	629	628	629	622	2 49	633	5 29	597	27
622	621	623	625	627	629	628	624	626	624	2 49	634	5 29	611	28
622	623	624	625	626	626	625	625	625	622					Mean.
615	615	617	618	619	619	620	620	621	613					Mean.†

*The daily mean values of vertical force, derived from 24 hourly values, have been corrected for progressive change by 1/48 of the difference between the values of the initial and terminal hours.

†Five international quiet days.

MARCH.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

17000 γ PLUS TABULAR QUANTITIES

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	628	630	635	633	627	616	613	623	627	632	630	625	620	620	625
2†	629	630	633	629	619	609	604	602	609	619	625	623	619	616	621
3	629	632	633	622	623	608	600	600	612	621	627	628	624	622	626
4	632	635	635	624	611	599	596	601	612	617	617	614	613	613	618
5	629	630	634	633	624	614	606	607	614	620	622	620	619	620	626
6	637	640	641	636	631	619	613	616	626	637	638	634	629	628	633
7	639	640	642	641	638	634	629	629	633	640	645	643	640	635	636
8	638	641	645	644	641	633	627	627	637	649	653	644	635	628	629
9	625	625	628	627	620	613	606	608	615	618	621	613	609	610	610
10	619	617	621	620	608	593	590	**583**	586	603	610	611	611	610	609
11	622	625	625	623	617	611	608	607	613	623	629	629	623	622	620
12	627	629	630	623	614	607	609	608	614	626	633	633	629	629	633
13	640	642	647	651	644	641	636	629	627	635	636	635	633	635	637
14	641	643	645	648	645	636	628	617	615	623	626	625	626	628	632
15	633	637	643	641	635	631	625	618	622	631	635	633	631	630	632
16	632	635	637	633	621	609	604	602	612	624	630	628	620	626	629
17	631	635	641	639	635	621	604	599	605	616	621	621	622	625	628
18	627	635	638	630	619	613	612	611	618	625	631	632	626	624	627
19	635	637	638	636	627	614	609	602	609	622	629	632	631	628	626
20	632	636	641	643	635	622	615	613	617	634	651	652	645	638	639
21	647	650	657	656	648	633	619	616	629	642	649	646	640	636	638
22†	641	644	649	646	636	626	612	612	623	633	639	637	635	634	636
23†	637	638	642	643	636	625	616	614	617	626	635	633	629	628	629
24†	633	636	640	640	635	629	622	619	624	633	637	633	630	633	636
25†	638	641	646	647	644	632	622	620	620	626	632	635	635	635	635
26	641	645	647	649	648	642	631	624	634	647	649	650	647	644	643
27	648	650	651	655	656	644	631	629	639	653	**661**	658	651	643	644
28	653	656	659	647	639	629	619	621	630	638	645	641	641	643	643
29	650	655	655	651	645	633	627	629	636	643	649	647	643	641	643
30	652	654	649	637	631	635	637	635	640	649	651	646	642	639	639
31	645	650	648	631	619	615	610	616	625	638	642	639	635	636	638
Mean .	636	638	**641**	638	631	622	615	**614**	621	630	635	634	630	629	631
Mean† .	635	638	**642**	641	634	624	615	**613**	619	628	634	632	630	629	631

APRIL.

1	644	647	651	641	625	606	598	603	617	634	641	639	634	634	635
2	641	647	652	647	633	611	601	600	615	629	638	644	646	643	642
3	647	647	656	653	643	621	609	610	617	626	633	638	639	635	631
4	632	636	643	638	630	615	602	601	608	620	633	638	637	631	626
5	624	630	634	628	616	600	588	590	601	623	637	642	640	635	634
6	639	642	645	641	631	619	611	617	633	646	650	648	643	638	639
7	647	653	659	650	640	625	615	611	618	631	640	640	641	642	644
8	653	658	667	665	655	642	637	639	645	649	653	657	655	651	652
9	655	656	664	665	661	647	634	637	644	651	657	658	658	657	655
10	656	661	664	657	644	629	619	619	626	636	647	649	646	646	646
11	652	656	666	664	652	632	622	627	634	645	651	645	638	644	646
12	644	651	651	646	631	614	609	606	606	620	628	634	634	632	635
13	636	642	649	639	609	**586**	586	599	611	620	637	632	636	637	639
14	643	652	658	649	633	621	613	615	636	648	653	660	656	656	652
15	658	660	660	652	642	631	625	625	633	643	649	654	653	653	651
16	655	663	664	655	640	616	611	620	630	640	647	653	652	647	649
17†	658	667	669	661	645	625	615	617	630	648	659	662	656	652	655
18†	662	669	671	665	652	635	625	620	635	650	657	661	656	652	652
19	665	670	668	659	645	633	627	631	639	649	656	662	661	654	653
20†	670	676	**677**	669	660	642	630	630	642	655	664	668	668	662	659
21†	665	672	673	662	642	638	635	638	648	656	659	657	647	638	639
22†	646	652	657	650	631	609	607	617	631	641	644	645	643	640	640
23	651	655	662	660	651	631	622	623	628	636	643	649	650	646	645
24	651	656	656	649	635	621	621	626	632	639	643	641	640	644	646
25	655	659	654	643	629	618	613	621	632	640	647	651	653	655	654
26	659	664	664	658	652	643	645	649	658	663	665	662	655	650	651
27	651	657	655	649	637	636	623	625	633	641	645	644	639	636	636
28	642	644	637	622	616	623	629	637	645	645	643	639	633	629	630
29	639	643	638	623	607	609	618	628	635	637	637	640	639	635	636
30	656	660	659	645	635	637	641	648	655	662	666	668	663	656	653
Mean .	650	655	**657**	650	637	624	**618**	621	631	641	647	649	647	644	644
Mean† .	660	667	**669**	661	646	630	**622**	624	637	650	657	659	654	649	649

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 17000 γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
624	625	627	628	628	627	627	627	627	626	1 39	635	5 29	612	1
622	621	623	624	625	625	626	626	627	621	2 1	634	6 34	599	2†
627	627	629	631	632	629	631	631	631	624	2 39	634	6 9	597	3
620	621	622	624	624	624	624	624	624	618	2 39	636	5 29	594	4
629	632	635	638	639	639	639	638	637	627	18 45	639	6 9	603	5
634	635	637	639	640	639	639	639	639	633	1 29	641	6 9	611	6
637	636	637	638	637	638	638	636	635	638	9 29	645	6 9	628	7
630	629	630	631	631	630	630	627	624	634	9 41	654	6 9	622	8
613	615	615	616	615	617	617	616	615	616	2 49	630	5 29	602	9
611	615	617	618	619	620	621	620	620	**611**	21 9	621	7 9	**578**	10
621	620	622	624	625	623	622	621	622	621	10 39	630	6 37	603	11
635	633	636	637	638	638	638	638	639	629	22 18	639	5 9	606	12
639	638	639	640	641	641	641	639	639	638	2 29	651	7 29	625	13
637	634	631	634	634	635	634	633	631	633	3 41	649	7 29	613	14
633	634	637	639	638	637	635	635	634	633	3 17	644	7 9	615	15
632	636	638	636	636	635	636	634	635	627	18 29	640	6 29	600	16
628	629	633	633	629	629	630	627	626	625	2 0	641	6 29	595	17
629	631	634	635	634	634	635	634	635	628	1 49	639	6 49	607	18
626	627	629	632	631	631	631	631	631	627	1 49	640	7 9	599	19
639	640	645	646	646	648	646	645	646	638	10 9	652	6 49	613	20
641	642	645	647	647	646	645	645	645	642	2 9	659	6 9	613	21
636	636	640	642	641	640	639	640	639	636	2 9	651	6 9	608	22†
630	631	635	636	636	636	635	633	633	631	2 29	654	6 0	611	23†
636	636	638	641	641	641	641	640	640	635	18 9	642	6 9	616	24†
635	636	638	641	642	642	641	640	639	636	2 57	648	7 23	616	25†
645	649	648	647	647	646	646	648	645	644	9 29	652	6 29	621	26
648	645	644	645	645	649	647	647	648	**647**	10 9	**661**	6 9	628	27
645	647	648	647	647	645	644	645	647	642	1 25	659	6 29	615	28
643	646	649	650	650	649	647	648	647	645	1 9	657	5 29	626	29
641	643	644	643	642	642	642	640	641	642	0 12	655	3 34	627	30
640	641	643	643	642	641	640	639	639	635	1 21	651	6 9	608	31
632	633	635	636	636	636	636	635	635	632					Mean.
632	632	635	637	637	637	637	636	636	632					Mean.†

APRIL.

639	640	640	641	641	640	639	638	637	**633**	1 49	651	6 9	594	1
646	648	649	649	648	647	647	647	645	638	1 29	653	6 5	599	2
633	635	635	635	634	634	633	630	629	633	3 4	656	5 49	604	3
625	627	629	630	628	629	627	624	623	**626**	3 9	644	6 9	598	4
638	638	642	645	644	645	643	643	643	630	11 9	645	6 14	586	5
641	643	646	647	647	647	647	646	646	640	9 49	651	6 9	609	6
647	649	652	652	653	653	653	654	652	643	1 49	659	6 49	610	7
652	657	659	659	658	657	658	656	656	654	2 9	668	5 49	637	8
657	659	659	656	656	658	658	659	659	655	2 49	666	6 1	628	9
648	650	653	654	653	655	654	652	653	647	1 49	665	6 29	616	10
653	649	650	648	649	652	652	651	648	647	2 29	667	6 9	621	11
636	637	639	639	639	640	638	637	638	633	1 29	653	7 37	600	12
642	643	645	646	647	648	648	646	646	632	1 49	650	5 9	**582**	13
653	659	662	661	661	660	658	659	659	649	8 49	668	6 25	599	14
657	655	655	656	657	657	658	656	657	650	2 9	661	6 9	622	15
653	655	657	658	658	658	657	658	658	648	1 29	666	5 49	610	16
656	656	659	660	661	661	661	661	662	653	1 29	670	6 21	611	17†
656	660	662	663	663	665	665	664	666	655	1 29	672	6 49	617	18†
657	659	661	662	663	664	664	664	665	656	1 9	671	5 29	626	19
661	663	665	665	665	666	666	665	664	**660**	1 17	**677**	6 9	627	20†
642	643	645	645	646	647	646	646	646	649	1 29	673	6 40	631	21†
643	645	647	648	649	649	648	647	647	641	1 49	657	5 29	606	22†
649	648	648	648	650	651	648	647	649	645	2 9	663	6 9	621	23
647	650	651	651	653	653	653	651	651	644	1 29	657	5 29	617	24
655	656	658	658	659	659	660	660	660	648	21 9	661	5 49	611	25
652	553	654	655	655	654	653	653	653	655	9 9	665	4 49	643	26
637	639	641	641	641	642	641	640	640	640	1 17	657	5 29	622	27
634	635	636	637	638	638	637	637	637	636	7 29	645	3 39	614	28
639	643	648	649	651	653	654	655	656	638	23 29	657	3 49	605	29
655	656	655	655	655	655	653	653	652	654	10 9	669	4 9	634	30
647	648	650	651	651	651	651	650	650	644					Mean.
651	653	655	656	657	657	657	657	657	651					Mean.†

*See footnote on page 113.
†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	658	665	660	644	623	604	598	605	615	624	634	643	646	645	645
2	657	660	655	642	625	611	615	626	638	649	654	656	653	650	648
3	653	663	660	645	628	617	623	626	637	647	653	654	647	637	642
4	650	653	642	621	601	**589**	601	615	625	638	647	647	645	639	638
5	644	650	649	639	628	619	617	621	626	627	635	638	632	627	632
6	643	644	646	639	631	621	616	617	624	628	627	628	635	637	635
7	639	645	652	645	636	633	635	639	645	651	651	646	646	655	657
8	662	664	661	651	639	637	638	641	645	647	651	659	662	664	661
9	663	667	**773**	669	662	647	639	634	635	543	653	658	657	657	655
10	660	663	662	658	650	637	627	624	634	647	658	663	661	658	653
11†	658	665	665	657	643	627	623	632	646	651	653	649	646	649	653
12†	666	673	676	667	646	630	632	643	658	668	674	674	668	661	659
13	673	680	679	671	660	653	652	651	659	571	676	676	671	665	661
14	676	680	679	673	663	557	658	662	664	666	666	665	673	662	662
15	674	677	677	673	665	656	648	651	659	659	663	661	664	663	662
16	672	674	673	667	658	647	647	647	653	663	668	670	667	661	660
17†	667	669	664	654	643	631	**630**	627	625	627	633	639	640	637	635
18†	647	651	654	650	641	626	626	632	641	650	656	655	650	644	641
19	653	654	649	646	639	627	625	633	640	645	649	650	649	647	644
20	657	659	652	643	638	636	633	637	641	649	652	658	655	656	656
21	665	671	665	356	646	637	637	538	641	647	646	648	648	648	649
22	653	658	658	652	638	623	623	621	633	643	645	643	643	646	647
23	650	654	653	646	636	631	631	633	639	646	646	648	652	652	648
24	658	662	657	647	639	627	620	633	649	657	558	658	655	654	654
25	659	665	665	656	645	631	622	622	631	643	648	649	648	648	647
26†	661	665	668	662	648	636	626	631	646	657	663	662	658	654	652
27	664	670	673	665	649	635	636	640	646	655	667	669	667	659	657
28	661	667	667	660	621	600	605	616	628	640	646	651	649	649	647
29	654	660	655	638	619	611	615	621	635	652	660	656	652	647	644
30	653	657	649	629	617	603	602	611	619	635	645	647	647	642	640
31	644	649	648	639	624	606	603	609	619	631	638	639	639	640	638
Mean .	658	**662**	661	652	637	629	**626**	630	639	647	652	653	652	650	649
Mean† .	660	**665**	665	658	644	630	**627**	633	643	651	656	656	652	649	648

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1	651	658	656	649	636	619	616	622	627	639	644	646	647	649	646
2	656	664	663	654	643	632	632	632	633	640	647	650	648	648	647
3	656	663	664	656	647	637	622	620	629	639	653	659	651	648	647
4	656	659	663	660	654	647	642	634	634	636	644	653	656	652	645
5	648	651	650	646	646	635	631	626	636	647	651	647	644	642	640
6	640	645	647	639	623	613	613	616	622	626	629	628	623	625	627
7	636	639	636	631	621	608	601	601	615	626	631	635	635	630	627
8†	634	639	634	625	616	614	619	634	644	654	661	663	660	657	654
9	670	672	674	674	668	654	650	645	653	660	669	673	667	664	662
10	673	673	669	663	657	650	645	649	654	662	666	669	664	661	661
11	671	675	670	663	651	640	632	635	650	657	660	665	667	669	660
12	669	673	664	651	635	619	618	629	646	658	659	658	655	651	651
13	653	660	658	645	627	626	630	633	635	639	640	637	639	642	643
14	643	651	647	636	623	613	607	603	611	623	635	642	642	637	631
15	643	648	647	636	623	613	**598**	598	606	624	641	645	644	640	634
16	645	652	653	643	629	622	627	642	652	664	677	685	680	669	667
17	679	**685**	683	673	658	647	643	642	650	658	666	672	675	674	669
18	675	680	677	669	659	650	642	641	645	653	662	667	669	667	663
19†	671	674	673	668	662	653	648	651	659	663	672	673	668	664	662
20†	671	675	672	658	644	633	629	636	644	650	658	661	663	662	659
21†	662	667	669	665	660	648	640	640	646	756	663	666	663	658	653
22	661	666	664	649	632	623	622	626	637	649	656	657	656	654	649
23	657	659	654	647	637	624	623	630	640	648	648	649	647	646	644
24†	652	653	646	638	631	629	617	622	638	649	654	652	649	648	646
25	659	663	658	651	646	634	617	619	637	653	659	662	660	655	649
26	661	670	669	657	645	636	632	633	641	648	650	652	645	645	649
27	663	670	668	655	632	623	622	624	633	646	656	558	655	652	650
28	664	667	665	662	657	647	651	658	665	672	675	678	672	661	652
29	657	662	655	643	629	629	637	645	650	657	664	668	565	659	652
30	665	672	671	655	637	615	607	615	623	639	651	657	658	651	646
Mean .	658	**663**	661	652	641	631	**627**	630	638	648	655	658	656	653	650
Mean† .	658	661	559	651	643	635	**631**	637	646	654	661	**663**	661	658	655

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
647	651	652	654	655	653	653	652	652	641	1 9	665	6 13	595	1
652	656	656	657	657	657	657	656	756	647	1 3	659	5 9	610	2
644	648	649	650	650	651	650	651	652	645	1 15	665	4 43	613	3
640	642	644	644	644	645	645	643	643	635	0 59	652	4 56	**585**	4
636	638	640	641	641	645	643	641	641	635	0 49	656	5 29	610	5
635	638	639	641	641	641	642	641	641	**635**	1 57	647	6 21	614	6
657	657	658	662	663	664	662	662	663	651	22 21	667	4 49	630	7
660	662	663	664	664	664	664	662	664	656	1 9	667	4 18	634	8
658	660	660	660	661	660	660	662	664	656	1 39	**684**	7 29	630	9
654	657	658	659	659	660	660	660	661	653	1 25	665	6 41	619	10
654	655	657	658	659	659	659	658	659	652	1 33	667	5 57	621	11†
660	663	663	663	665	665	665	665	667	661	1 29	678	5 33	628	12†
663	665	666	669	669	670	669	670	671	667	1 3	682	6 47	649	13
666	669	672	672	672	673	673	673	673	**669**	1 31	681	5 25	656	14
662	666	669	670	670	671	670	669	670	665	0 59	679	6 25	646	15
661	664	664	665	665	665	665	665	664	663	1 21	675	5 45	643	16
637	639	641	640	641	641	640	640	640	640	1 17	670	7 49	622	17†
642	646	648	640	650	650	647	646	646	645	10 9	656	5 23	620	18†
646	651	651	651	652	652	651	652	652	646	0 49	657	5 33	620	19
656	656	660	661	660	656	656	657	659	652	10 41	662	6 8	630	20
651	651	653	655	656	656	655	655	656	651	0 57	674	6 9	636	21
647	649	650	650	651	651	650	650	651	645	0 51	662	6 43	526	22
651	655	657	658	659	659	660	659	658	649	20 9	660	5 27	625	23
657	657	660	659	661	662	660	662	662	653	23 59	663	6 9	619	24
651	656	658	659	659	660	660	659	659	650	1 25	665	6 23	617	25
656	659	661	661	660	660	660	659	660	655	1 41	670	6 41	622	26†
658	661	661	662	663	663	661	661	661	658	2 9	675	5 13	629	27
648	657	657	656	654	655	653	651	650	645	1 29	671	5 9	696	28
645	648	649	648	648	647	649	648	649	644	10 1	661	4 51	610	29
641	643	643	643	643	643	643	644	643	637	0 57	658	5 57	598	30
642	644	645	646	647	647	647	647	658	637	1 1	651	5 33	600	31
651	654	655	655	656	656	656	655	656	650					Mean.
650	653	654	652	655	655	654	654	654	651					Mean.†

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647	649	652	655	656	655	652	651	651	645	1 9	660	5 43	610	1
649	652	653	654	655	655	656	655	654	649	1 17	665	5 29	627	2
650	652	652	654	654	654	654	654	652	549	1 17	665	6 48	610	3
645	648	649	650	650	651	651	650	652	549	1 45	663	8 9	629	4
640	640	641	642	642	642	641	640	641	642	1 33	654	7 9	620	5
629	631	633	633	634	634	634	634	635	630	1 27	648	5 29	610	6
627	629	631	631	631	629	630	630	631	**627**	0 49	639	6 45	**595**	7
657	660	659	659	661	663	663	663	666	649	10 41	663	6 49	611	8†
663	665	665	567	668	668	669	669	668	665	10 37	676	7 9	643	9
663	662	667	668	666	667	669	669	669	663	1 0	678	6 17	640	10
662	661	664	665	665	666	665	664	666	660	0 53	676	6 19	624	11
650	652	652	652	655	655	655	654	653	651	1 47	677	5 45	612	12
643	645	646	647	646	645	645	645	645	642	1 5	660	4 33	621	13
635	637	637	638	638	635	633	632	635	632	0 43	657	7 1	602	14
636	639	640	641	641	640	640	640	639	633	0 55	652	6 49	595	15
667	671	674	673	673	673	673	673	674	661	11 9	688	4 51	616	16
671	673	673	673	672	671	669	667	667	**667**	0 59	**690**	6 23	634	17
664	666	667	667	667	667	667	666	666	663	1 1	684	6 49	639	18
663	665	666	665	665	665	665	665	666	664	10 17	678	6 9	646	19†
660	662	663	663	662	662	662	662	659	657	1 17	678	6 0	628	20†
654	655	657	657	656	655	655	654	655	657	1 15	669	6 9	635	21†
649	652	653	653	654	654	653	653	652	649	1 13	669	5 11	619	22
643	645	647	648	648	648	647	647	647	645	1 9	658	5 33	618	23
647	649	649	351	651	651	650	651	652	645	10 13	657	6 17	611	24†
651	652	653	654	655	654	654	655	655	550	1 29	663	6 29	608	25
652	652	655	656	657	659	659	661	658	**652**	1 21	673	6 9	628	26
652	653	655	655	656	657	657	657	658	650	1 37	672	5 29	616	27
653	654	653	652	652	654	654	655	655	**659**	11 5	681	5 21	645	28
654	657	659	659	659	658	658	659	659	654	11 17	669	4 11	624	29
649	652	652	652	653	655	657	654	656	647	1 25	678	5 37	602	30
651	653	654	655	655	655	655	654	655	650					Mean.
656	658	659	659	659	659	659	659	659	654					Mean.

*See footnote on page 113.

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	657	663	664	655	645	641	637	631	634	645	656	659	656	652	644
2	657	664	667	664	655	638	626	627	628	628	645	657	659	659	656
3†	663	670	669	666	660	651	644	637	635	643	652	658	661	663	661
4	667	671	673	670	663	653	647	648	651	659	663	665	667	663	657
5	662	668	666	659	648	529	625	624	626	634	644	649	650	650	648
6	658	662	659	648	641	631	628	635	639	643	649	655	655	652	647
7	651	654	652	649	647	640	631	633	637	647	653	651	650	646	638
8	650	649	643	645	642	633	628	631	645	659	665	666	665	659	653
9	670	674	669	657	646	643	637	642	653	664	667	666	666	663	660
10†	665	667	662	654	650	661	662	667	677	684	685	683	677	665	657
11	662	667	665	653	637	636	642	647	647	650	651	652	652	649	649
12	655	659	654	649	647	645	639	642	647	654	658	662	657	649	643
13	652	658	655	643	628	619	615	627	636	643	645	645	645	644	642
14	647	653	653	647	637	637	638	641	648	658	671	675	668	659	656
15†	665	672	667	653	642	631	628	635	644	654	665	669	665	660	654
16†	668	675	675	661	651	635	621	627	640	651	662	667	664	659	655
17	667	674	675	661	642	625	617	616	633	655	664	668	666	662	659
18	667	672	671	660	648	650	650	649	651	659	667	670	668	661	657
19	663	667	666	656	647	641	635	635	641	652	657	658	660	660	655
20	661	666	665	656	646	635	632	634	639	644	647	656	659	654	647
21	652	655	659	655	641	630	618	619	627	636	644	649	648	648	643
22	649	654	668	653	645	635	635	638	638	650	657	662	664	665	659
23	672	674	672	666	661	655	651	653	657	655	661	671	672	670	667
24	674	679	682	674	656	645	639	646	655	665	670	673	670	669	667
25	670	676	679	668	648	642	638	643	654	662	667	670	668	663	662
26	670	674	665	656	640	636	635	643	655	665	669	664	656	656	656
27	666	671	668	655	635	624	620	624	631	641	655	665	664	658	656
28	664	670	669	661	649	639	644	657	670	674	674	670	665	659	659
29†	668	671	673	673	667	649	645	649	654	662	669	674	673	666	660
30	670	673	666	660	649	642	648	655	659	657	659	665	665	660	656
31	664	668	668	660	645	642	651	657	660	663	668	673	671	663	659
Mean . .	662	667	666	658	647	639	636	639	645	653	660	663	662	658	654
Mean† . .	666	671	669	661	654	645	640	643	650	659	667	670	668	663	657

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1	663	672	671	667	659	646	636	639	644	646	654	657	660	663	658
2	660	667	666	655	643	638	635	638	643	653	661	664	662	658	655
3	658	663	666	655	640	629	629	634	643	651	653	649	651	652	650
4	658	664	666	658	651	643	639	644	645	649	655	659	659	656	655
5	660	665	668	662	653	640	641	647	653	659	663	660	655	653	655
6†	636	664	664	660	653	651	652	649	655	656	656	656	656	653	650
7	..	665	..	..	..	649	663	669	675	671	676	671	661	658	659
8†	613	621	621	609	601	607	612	626	646	653	656	658	658	652	650
9	660	671	..	..	..	654	656	666	..	657	..	662	..	..	..
10	..	669	..	..	..	641	..	..	..	677	..	671	668	..	..
11	..	667	..	..	662	662	..	..	..	666	..	672	..	..	..
12	..	665	..	..	..	644	..	..	..	663	..	658	..	659	..
12	..	669	..	..	659	655	652	651	..	661	..	667	..	..	..
14	670	674	672	670	668	661	655	659	666	674	680	681	666	673	671
15	674	680	679	669	657	646	641	645	651	661	666	670	675	674	666
16	667	677	674	666	659	644	625	624	633	651	667	672	675	673	665
17†	669	677	683	675	655	640	630	645	656	665	668	673	672	669	664
18	677	685	687	678	661	635	629	639	657	667	677	676	672	668	667
19	678	685	691	679	658	651	653	656	661	675	681	685	693	684	671
20	678	683	682	662	649	633	640	641	661	672	683	687	689	682	674
21	686	691	694	684	668	669	672	675	670	689	696	705	702	692	683
22	692	697	689	670	652	631	631	638	652	664	673	681	682	675	671
23	675	680	683	674	665	655	649	654	662	669	672	672	672	671	666
24	681	688	687	676	661	649	647	651	654	663	673	675	675	674	671
25†	679	680	678	668	653	638	639	650	662	678	689	688	681	669	663
26†	678	687	686	663	636	630	630	639	650	667	686	692	686	672	665
27	681	689	686	664	636	607	601	612	626	648	668	679	679	667	661
28	671	675	678	671	657	648	649	656	663	665	671	673	668	658	656
29	659	669	674	659	645	638	641	638	644	645	652	656	656	647	645
30	646	653	644	619	604	596	585	600	621	633	645	654	646	631	626
31	633	641	639	622	602	588	593	607	622	639	656	666	670	666	665
Mean . .	667	673	673	661	647	637	634	640	649	660	668	672	671	665	661
Mean† . .	659	666	666	655	640	633	633	642	654	664	671	673	671	663	659

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
647	651	653	653	653	652	652	652	650	650	1 13	668	7 13	627	1
657	658	663	663	663	663	662	663	663	654	2 15	669	6 17	620	2
662	663	664	663	663	663	663	663	663	658	1 9	670	7 43	631	3†
658	659	660	660	660	660	660	659	658	660	1 17	673	6 21	645	4
651	653	655	656	657	656	656	656	655	649	1 9	672	7 21	622	5
645	647	645	649	651	651	650	650	647	647	0 59	664	5 21	624	6
640	643	646	647	648	647	646	646	647	645	1 9	656	6 9	628	7
655	656	657	658	659	659	658	658	659	657	10 13	667	6 33	621	8
660	662	664	664	664	664	664	664	663	660	0 53	674	5 57	635	9
655	657	658	657	658	658	658	658	659	664	9 21	687	3 16	644	10†
651	651	652	652	654	654	654	654	655	651	1 11	669	5 13	633	11
645	646	645	645	645	645	647	647	647	649	11 9	662	6 0	635	12
644	644	645	645	645	645	645	645	645	642	10 51	662	5 47	610	13
658	658	659	659	659	659	660	660	661	655	11 13	675	4 27	628	14
657	659	661	661	662	662	662	662	663	657	1 5	673	5 57	624	15†
657	659	661	661	663	663	663	663	664	657	1 21	677	6 9	615	16†
661	664	664	665	665	666	666	666	665	657	1 49	677	6 23	611	17
660	662	661	661	662	661	660	659	660	660	1 5	674	4 19	645	18
656	659	660	660	661	661	660	660	659	655	1 25	669	6 49	630	19
650	653	652	652	652	650	649	650	649	650	1 23	668	5 50	629	20
643	645	646	645	646	646	647	655	647	643	21 45	665	6 9	612	21
668	665	668	670	670	669	669	669	669	658	9 31	679	5 18	619	22
667	669	670	669	669	670	670	671	671	666	0 45	673	6 13	647	23
665	666	666	667	669	670	670	670	668	666	1 41	683	5 45	635	24
663	665	667	667	665	667	665	667	667	663	1 55	677	6 9	635	25
657	659	661	661	662	661	661	665	665	658	1 3	675	5 53	633	26
656	659	658	659	659	660	659	658	660	653	1 9	675	5 53	613	27
661	664	664	664	665	664	664	664	665	663	9 33	675	5 19	637	28
659	659	663	664	665	666	667	667	666	664	11 25	676	5 30	638	29†
656	659	661	660	659	659	660	661	663	659	0 49	674	4 29	637	30
659	661	662	661	661	661	662	662	663	661	11 17	677	5 21	638	31
656	657	658	659	659	659	659	659	659	656					Mean.
658	659	661	661	662	662	662	663	663	660					Mean.†

AUGUST.

656	658	659	659	659	658	658	658	657	656	1 34	674	6 37	630	1
655	658	658	660	658	660	660	661	660	655	1 21	671	5 57	629	2
652	653	655	655	656	656	656	656	656	651	1 45	670	5 33	624	3
653	653	655	657	658	660	660	660	658	655	1 49	669	5 57	630	4
653	653	655	655	656	656	657	657	657	655	1 53	671	5 9	635	5
651	652	653	653	653	655	655	655	655	655	2 9	664	6 57	644	6†
662	662	662	..	..	..	..	..	..	..	..	..	..	..	7§
651	651	654	656	655	655	656	656	658	641	0 0	660	4 28	600	8†
..	..	662	..	..	..	..	..	..	..	..	..	..	..	9§
..	..	668	..	..	..	..	..	..	..	..	..	..	..	10§
..	..	664	..	..	..	..	..	..	..	..	..	..	..	11§
..	..	659	..	..	..	..	..	..	..	..	..	..	..	12§
..	..	665	..	..	..	..	..	..	..	..	..	..	..	13§
672	673	675	676	675	675	675	674	674	671	11 23	683	6 1	653	14
666	668	671	672	672	671	671	670	670	666	1 44	683	6 9	639	15
666	668	670	671	670	670	669	669	669	662	1 15	681	6 55	622	16
666	669	673	675	675	675	676	677	677	667	2 21	685	6 7	628	17†
669	672	674	676	677	677	677	678	678	669	1 49	688	5 45	624	18
673	675	678	679	680	680	681	681	681	675	12 19	701	5 1	650	19
677	681	683	685	683	683	690	688	685	674	21 1	696	6 45	628	20
686	689	693	690	688	689	690	690	692	687	12 9	705	8 1	631	21
671	672	671	672	673	673	673	674	674	668	1 9	698	5 51	630	22
667	668	668	669	669	669	669	669	670	668	1 53	684	5 45	647	23
670	671	671	672	672	671	671	672	672	669	1 9	690	5 29	644	24
664	666	667	667	667	667	667	667	667	667	10 9	690	5 7	635	25†
669	671	673	674	674	674	674	674	675	668	11 1	694	5 21	629	26†
663	666	668	669	670	670	669	669	670	659	1 25	691	6 1	596	27
656	657	659	662	662	662	662	662	662	662	1 51	679	5 13	644	28
641	644	653	648	649	647	648	644	647	649	2 13	680	7 19	635	29
626	629	630	630	629	633	634	634	634	628	11 21	657	5 45	585	30
669	675	678	682	682	683	682	684	685	652	23 59	696	5 9	587	31
662	664	666	666	667	667	667	667	667	661					Mean.‡
660	662	664	665	665	665	665	666	666	659					Mean.†

*See footnote on page 113.

†Five international quiet days.

In taking the hourly and monthly means for international quiet days in August two locally selected quiet days, August 8 and 17, have been used instead of the two international quiet days, August 7 and 13.

‡ Mean of 25 days.

§ V. F. magnetograph was under adjustment (See Introduction pages 1-2). Some of the readings for these dates are supplied from the eye observations of Eschenhagen Variometer (instantaneous readings).

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	684	691	694	680	666	663	660	660	663	676	678	684	692	694	691
2	694	696	693	673	665	662	665	673	683	687	695	703	702	693	688
3	686	690	691	679	667	660	659	658	658	668	678	687	687	681	677
4	681	686	692	685	674	667	662	660	665	673	684	686	687	681	677
5	684	687	687	667	650	633	634	632	638	653	662	671	671	668	667
6	664	670	674	654	629	626	623	620	624	636	651	658	662	658	657
7	669	674	673	652	641	634	633	636	650	662	667	665	665	652	657
8	667	673	659	622	595	592	616	626	645	659	673	677	672	670	669
9	685	691	691	675	640	630	621	626	641	663	679	679	677	675	673
10	688	704	704	679	655	647	646	650	669	679	687	689	689	687	689
11	691	700	699	681	648	618	612	615	623	641	666	682	684	682	683
12	688	696	702	675	646	621	619	630	647	659	669	671	668	671	672
13	679	683	690	678	655	623	617	619	641	659	670	677	674	670	669
14	675	678	677	664	620	591	570	589	603	625	645	658	654	647	647
15	664	673	681	670	650	622	595	595	617	642	662	668	664	656	657
16†	674	677	680	672	663	649	643	641	643	659	666	670	669	666	665
17†	678	681	679	669	656	649	647	651	659	679	687	687	678	673	674
18	676	679	677	663	649	638	638	636	638	650	660	673	663	659	659
19	663	666	671	658	640	622	614	618	627	644	657	658	653	649	650
20	653	658	662	641	625	622	613	613	624	637	639	640	641	640	640
21	644	648	662	638	623	612	617	628	632	664	679	682	675	673	675
22†	689	693	695	690	674	657	649	653	677	692	698	702	696	690	691
23†	697	702	707	700	684	677	669	671	682	694	699	701	690	690	693
24†	698	705	705	692	679	652	643	645	671	692	699	699	697	688	689
25	691	697	700	688	671	659	649	643	651	669	679	683	673	672	678
26	678	683	690	668	636	614	615	624	636	657	671	679	665	662	666
27	662	667	664	653	627	610	609	624	644	653	659	651	647	647	647
28	650	653	656	643	623	613	614	623	634	653	663	665	662	662	666
29	677	681	683	672	659	652	651	653	668	676	687	685	682	679	679
30	687	687	698	691	677	642	639	640	656	674	677	675	670	672	675
Mean . .	677	682	685	669	650	635	631	635	647	663	673	677	674	670	671
Mean† . .	687	691	693	685	671	657	651	652	666	683	690	692	686	681	682

OCTOBER.

1†	680	684	688	682	671	669	659	658	676	688	688	682	676	675	676
2	677	681	688	685	674	663	647	639	645	657	665	670	671	671	673
3	672	673	681	680	666	660	646	633	640	652	663	667	666	664	664
4†	659	663	667	660	648	626	622	645	631	645	649	649	646	645	646
5	651	654	657	649	632	627	626	622	628	641	653	651	654	659	663
6	676	681	686	683	670	656	653	662	670	676	678	676	674	673	676
7	683	684	686	681	674	668	662	663	673	682	684	672	663	665	671
8	672	666	679	677	668	667	662	663	671	678	674	665	661	663	667
9	674	677	679	674	658	643	640	641	647	657	665	666	661	661	666
10	672	676	679	670	647	642	639	645	654	662	667	661	653	654	659
11	669	665	667	664	653	653	641	648	658	665	..	..	..	..	..
12	661	668	674	665	656	642	630	635	635	649	657	668	657	663	657
13	670	673	678	676	668	653	647	654	656	664	666	667	665	667	669
14	679	685	686	677	662	654	..	..	..	..	..	649	651	659	667
15	682	689	695	683	669	656	655	656	665	678	682	680	676	673	676
16	686	687	688	679	669	654	651	653	664	676	679	675	670	673	677
17†	681	685	684	673	659	650	649	659	665	669	677	681	675	675	680
18	693	695	698	694	685	664	663	672	678	680	681	680	672	672	675
19	674	677	685	679	660	645	637	640	653	662	661	657	652	655	660
20	663	665	674	676	670	658	652	658	667	673	671	662	652	657	659
21†	658	661	663	657	641	631	631	642	651	653	651	648	642	645	647
22	641	641	647	645	643	632	629	631	643	646	641	623	620	622	637
23	640	640	655	657	653	627	621	624	627	627	638	635	639	642	639
24	634	641	645	641	640	636	640	644	643	640	635	645	631	636	639
25	641	641	640	630	620	627	609	623	634	639	637	630	629	631	631
26	628	633	635	628	628	622	637	658	673	680	685	683	680	684	683
27	690	693	693	691	676	654	674	684	695	697	700	699	693	689	690
28	690	693	698	697	693	684	678	682	686	686	686	683	679	679	682
29	678	679	681	677	664	656	653	657	662	663	665	662	657	657	661
30	652	653	656	651	641	631	629	634	637	638	638	641	644	644	644
31†	639	637	637	633	626	626	629	643	651	646	643	640	638	641	641
Mean .	666	669	673	668	657	647	644	648	656	662	665	663	659	660	662
Mean† .	663	666	668	661	649	640	638	649	655	660	662	660	655	656	658

†Five international quiet days.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
689	691	691	692	693	694	695	694	695	684	23 56	698	5 9	611	1
688	689	688	688	689	690	691	692	692	687	11 37	705	5 7	661	2
677	676	676	677	680	681	683	682	683	677	1 29	695	6 17	655	3
677	679	679	680	679	679	682	682	686	679	12 1	697	7 5	658	4
665	668	669	671	672	672	672	673	673	664	1 44	690	6 45	628	5
658	660	662	666	670	671	671	671	668	654	1 53	676	6 57	619	6
662	663	666	667	667	666	669	667	666	659	1 35	679	6 21	630	7
675	679	681	681	682	683	685	685	686	661	21 13	686	4 28	588	8
674	678	680	681	675	681	679	881	683	669	1 21	695	5 49	618	9
692	685	688	692	696	697	694	691	695	683	1 33	709	5 29	644	10
684	685	687	686	689	686	685	686	687	671	1 29	706	5 53	611	11
674	675	676	691	679	678	678	678	678	668	1 50	705	5 29	616	12
669	673	675	673	675	675	677	675	674	665	1 41	691	5 57	615	13
650	653	655	657	659	660	658	659	660	644	1 43	683	5 53	**565**	14
657	659	661	665	667	668	668	667	667	654	1 53	683	6 31	584	15
666	668	670	673	674	674	674	675	674	666	1 50	684	7 31	639	16†
675	675	676	677	680	679	680	679	679	673	10 55	689	6 21	645	17†
660	661	662	663	664	665	667	668	668	659	1 41	683	5 49	631	18
651	650	653	654	653	654	654	654	653	648	1 55	673	6 21	613	19
641	643	644	644	644	646	645	646	646	**639**	1 41	665	6 13	610	20
677	679	682	684	685	687	687	689	689	664	11 5	690	5 7	610	21
694	694	695	696	696	697	697	697	697	688	10 48	705	5 57	648	22†
691	693	697	698	698	699	699	698	698	**693**	1 53	709	6 9	668	23†
689	690	691	692	692	693	693	692	693	687	10 29	**710**	6 21	637	24†
679	679	681	681	681	683	682	678	681	676	1 37	703	6 45	639	25
668	670	671	671	672	672	671	669	670	661	1 37	692	6 1	608	26
647	649	651	651	652	651	651	650	648	646	1 39	669	5 37	607	27
669	672	675	675	678	678	678	677	677	657	21 1	680	5 57	610	28
682	683	687	687	688	688	689	687	687	678	17 3	690	6 45	648	29
675	679	680	681	681	681	681	679	678	674	2 14	701	6 38	632	30
672	673	675	677	677	677	678	677	678	668					Mean.
683	684	686	687	688	688	689	688	688	681					Mean†.

OCTOBER.

677	679	680	682	683	684	683	682	682	678	9 18	691	6 41	653	1†
672	674	676	679	679	678	678	680	679	671	2 15	689	7 9	638	2
664	666	667	669	670	670	670	669	669	664	3 0	683	7 14	629	3
646	648	650	652	653	653	653	652	653	648	2 1	669	6 47	616	4†
669	670	676	664	678	677	675	675	674	656	19 44	680	6 59	620	5
677	665	679	681	681	681	681	668	668	674	1 53	688	6 0	650	6
669	668	674	676	676	675	675	672	671	673	2 1	688	12 21	658	7
670	671	673	675	675	675	674	674	674	671	2 5	687	12 21	659	8
668	668	671	673	674	675	679	679	673	665	20 55	684	5 49	639	9
657	664	667	667	669	667	666	663	663	661	1 39	681	6 3	636	10
..	..	652	655	657	658	659	659	659	..	..	..	..	..	11§
664	670	673	674	670	683	679	668	664	661	19 32	701	7 1	624	12
670	673	680	678	681	681	680	679	679	670	2 15	684	5 41	636	13
670	673	679	682	683	686	685	685	683	..	..	..	..	..	14§
677	677	680	685	684	685	684	684	684	677	1 39	696	5 28	653	15
675	676	679	682	683	683	682	681	680	675	1 43	690	6 29	649	16
680	681	682	687	687	687	687	685	685	676	19 17	688	5 39	647	17†
674	674	674	675	676	675	674	675	675	678	2 31	699	5 29	659	18
660	661	664	666	667	666	664	664	664	661	2 29	687	6 25	635	19
660	660	661	653	663	661	662	661	661	663	2 31	678	5 51	651	20
646	646	650	649	648	647	646	645	644	647	2 29	666	5 37	629	21†
642	648	645	642	641	639	640	641	640	638	16 7	649	12 59	605	22
639	638	639	635	639	636	632	638	635	637	2 9	667	7 25	614	23
638	639	640	642	642	639	637	638	640	639	7 35	647	11 51	629	24
631	633	635	637	634	635	633	631	633	**631**	1 48	642	5 27	**604**	25
684	687	592	693	693	693	693	692	693	670	0 9	696	4 13	620	26
688	689	691	693	693	693	693	693	693	**689**	10 15	**702**	5 22	639	27
681	681	682	683	683	682	682	682	681	684	3 2	700	12 43	677	28
659	658	660	661	663	661	661	660	657	663	2 23	682	5 59	623	29
644	644	639	647	647	647	645	644	644	643	2 47	658	4 23	609	30
642	642	644	643	643	643	643	643	644	640	7 59	653	4 25	624	31†
663	664	666	667	668	668	667	666	665	662					Mean‡.
658	659	661	663	663	663	662	661	661	658					Mean†.

* See footnote on page 113.

† Five international quiet days.

‡ Mean of 29 days.

§ V. F. magnetograph was under adjustment on October 11 and 14. These days have been omitted in taking the means.

(Averages for periods of sixty minutes centered at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	644	644	651	653	649	642	650	670	679	681	683	681	677	678	681
2	695	695	696	692	679	671	671	682	688	690	692	692	688	689	692
3	689	688	691	690	689	686	683	687	688	686	681	678	675	679	684
4†	685	684	685	688	682	673	662	666	669	666	667	664	663	668	672
5	667	668	670	669	665	655	655	662	662	660	649	660	658	659	659
6	657	658	660	662	659	645	628	635	642	642	642	644	643	644	647
7†	648	647	649	648	644	641	637	639	645	649	647	644	641	643	645
8	653	654	659	663	657	653	648	660	671	677	671	669	665	665	668
9	671	671	675	677	673	661	660	665	669	664	660	659	660	669	675
10	681	681	685	690	687	687	683	681	685	686	684	679	676	680	682
11	684	684	688	681	671	660	653	663	674	675	670	666	663	652	667
12	661	662	666	668	653	643	639	647	662	666	668	667	662	663	666
13	660	659	659	659	653	647	642	639	641	642	647	650	647	649	653
14†	656	654	658	661	655	643	635	638	639	638	638	641	639	640	645
15	645	643	645	652	650	641	637	644	654	655	657	659	661	663	667
16	667	669	670	674	673	685	683	686	688	679	685	673	671	673	675
17	678	679	681	686	689	685	683	693	698	694	685	684	685	688	689
18	689	689	692	698	698	694	689	693	691	687	681	679	679	683	688
19	692	690	692	697	696	694	693	699	703	698	694	688	685	688	692
20	697	698	699	701	698	689	690	694	694	692	692	687	685	689	692
21	693	692	696	703	693	680	683	689	689	687	684	681	678	680	684
22†	685	685	682	683	679	673	672	673	674	672	669	670	669	674	677
23	679	679	683	683	673	660	665	666	669	668	665	659	654	654	657
24	662	662	661	662	654	643	634	636	643	648	652	649	649	651	651
25†	659	661	665	663	658	653	650	651	653	656	649	646	645	647	650
26	666	666	665	663	659	660	658	660	664	663	661	662	661	663	666
27	665	664	666	665	658	653	652	673	679	682	679	672	666	667	671
28	677	678	679	679	677	672	667	667	675	675	677	667	674	676	679
29	678	677	678	679	680	668	666	663	659	662	665	668	668	666	668
30	668	666	664	672	679	673	673	677	678	676	675	672	670	675	676
Mean	672	672	674	675	671	664	661	667	671	671	669	667	665	667	671
Mean†	669	669	670	669	663	656	653	657	660	661	659	659	657	659	662

DECEMBER.

1	677	675	673	676	671	666	667	669	672	675	679	679	673	672	673
2	668	670	671	677	677	675	666	661	665	662	661	661	660	663	666
3	673	675	676	681	678	672	667	669	671	673	669	665	665	671	671
4†	669	669	666	671	670	665	666	667	670	676	673	668	666	668	666
5	669	669	666	669	668	659	657	658	656	655	651	654	658	659	661
6	659	658	659	659	659	650	650	655	661	657	654	655	653	655	657
7	662	664	661	664	665	666	664	661	663	660	655	657	662	666	666
8	671	671	669	667	665	658	657	662	671	673	673	671	671	672	676
9	680	681	682	681	680	679	677	679	682	683	679	677	680	681	683
10	688	688	683	689	691	679	676	688	693	691	686	681	680	684	683
11	688	689	689	691	689	672	665	670	675	673	672	675	675	676	679
12	679	678	677	677	672	666	666	665	668	673	674	670	664	664	667
13	662	663	666	665	653	643	643	651	658	652	651	653	647	649	655
14§	658	656	658	663	667	654	..	..	..	..	..	..	..	..	..
15	651	654	657	663	660	657	659	665	671	671	672	670	665	667	669
16	670	671	673	677	670	672	669	671	680	681	678	677	672	673	676
17	677	677	680	683	681	674	668	673	678	681	685	687	683	687	686
18	682	683	688	687	675	665	664	672	676	672	672	669	671	675	675
19	668	669	677	684	685	676	671	670	671	674	667	665	665	669	670
20†	668	668	669	672	666	672	659	667	674	671	673	673	670	674	677
21†	681	683	685	692	699	688	685	695	700	696	703	709	706	711	716
22	715	715	715	724	724	711	712	717	717	715	713	710	706	708	712
23	706	705	707	712	698	663	663	676	689	694	691	689	689	692	694
24†	692	693	693	695	693	679	675	680	682	679	679	681	683	686	688
25	680	682	684	685	673	663	661	668	677	682	685	683	678	680	681
26	677	677	681	685	676	647	635	640	651	655	660	664	659	660	664
27†	667	668	670	671	663	644	639	641	646	653	654	655	652	652	655
28	655	657	661	667	658	621	611	617	622	628	635	645	642	640	645
29	640	641	641	642	641	623	617	623	621	640	651	659	660	661	663
30	670	673	675	677	669	654	655	663	669	671	675	680	674	669	673
31	672	674	674	680	684	661	647	654	660	670	679	681	679	675	678
Mean‡	674	675	676	679	675	664	660	665	670	671	672	672	670	672	674
Mean†	675	676	677	680	678	670	665	670	674	675	677	677	675	678	681

†Five international quiet days.

§V. F. magnetograph was under adjustment on December 14. This day has been omitted in taking the means.

‡ Mean of 30 days.

(Averages for periods of sixty minutes centered at the full hours of Grenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
680	681	682	685	685	686	686	687	688	673	23 1	689	5 13	640	1
689	688	689	691	690	690	689	689	689	688	2 20	697	5 27	666	2†
683	681	684	686	685	685	685	685	684	685	2 13	692	12 13	674	3
675	668	671	672	672	671	672	670	671	672	3 25	689	6 5	661	4
657	656	657	657	657	656	655	655	655	659	1 57	671	5 19	652	5
646	644	645	647	646	646	645	645	645	646	3 38	663	6 29	**626**	6
645	644	645	646	647	647	947	647	647	**645**	9 21	650	6 5	635	7†
668	668	668	668	668	667	667	666	666	665	9 9	678	5 35	644	8
674	674	676	679	679	678	678	677	678	671	23 56	680	11 41	657	9
682	683	685	686	685	685	684	683	682	684	3 1	691	12 21	675	10
667	667	670	671	671	670	669	668	668	669	2 32	692	5 55	651	11
666	667	667	668	668	668	669	668	668	663	2 53	671	5 49	636	12
653	653	656	658	658	658	658	658	658	652	2 37	663	6 53	638	13
644	642	644	647	648	647	647	647	647	645	3 9	662	6 19	634	14†
667	666	669	673	673	673	674	674	675	660	23 59	678	5 57	636	15
671	670	672	676	677	678	679	680	683	677	7 55	691	0 9	668	16
688	689	690	691	690	689	689	689	690	688	8 3	699	0 1	676	17
685	688	691	693	692	689	689	689	692	689	3 14	699	11 37	675	18
691	693	694	694	695	694	695	693	694	**693**	7 38	**705**	11 57	683	19
690	691	693	693	693	692	685	690	690	692	3 22	702	12 5	684	20
681	681	684	682	682	679	679	679	678	685	3 17	705	20 37	677	21
676	676	676	677	676	675	675	675	674	676	0 53	686	10 45	667	22†
655	654	655	656	656	655	655	655	656	663	2 22	684	12 29	652	23
649	648	651	653	653	652	653	652	654	651	0 47	664	6 54	633	24
651	651	653	656	656	655	655	655	655	654	2 29	667	11 43	644	25†
665	663	665	667	665	664	663	663	661	663	17 52	668	6 37	657	26
670	671	674	676	677	675	673	673	673	670	8 59	683	5 0	647	27
678	676	677	678	677	676	675	674	676	676	14 25	680	6 37	664	28
667	668	669	671	671	669	668	667	667	669	3 45	683	7 51	657	29
676	677	678	679	678	671	677	675	674	675	20 49	682	1 55	662	30
670	669	671	672	672	672	671	671	671	670					Mean.
661	660	661	663	663	663	663	663	663	662					†Mean.

DECEMBER.

672	671	671	670	670	669	668	668	666	671	10 45	681	23 59	664	1
665	665	666	667	667	667	667	667	666	667	4 32	680	11 34	658	2
670	666	667	668	669	668	668	667	667	670	2 59	681	10 53	664	3
666	665	667	668	667	667	667	666	667	668	3 39	676	15 55	665	4†
658	659	659	660	658	658	658	657	657	659	3 25	672	8 49	651	5
657	654	656	658	659	657	657	657	657	657	8 30	664	5 35	645	6
665	665	666	667	668	667	667	668	668	664	18 22	666	10 23	653	7†
675	675	676	677	677	677	677	677	677	672	19 11	679	5 23	653	8
681	682	685	687	685	683	683	683	684	682	18 9	687	6 1	675	9
584	687	590	690	690	690	690	689	688	687	8 13	694	5 57	674	10
678	678	680	682	682	681	680	679	679	679	3 21	692	6 1	664	11
665	665	667	669	657	667	667	666	663	669	0 12	680	12 34	660	12
651	647	651	653	653	652	649	652	653	653	14 33	667	5 35	641	13
..	..	..	..	..	..	..	..	..	..	.. ..	..	.. ..	..	14
668	668	668	668	669	668	669	669	670	666	8 33	674	0 13	645	15
677	675	675	674	673	675	675	676	677	675	8 33	683	6 37	668	16
684	684	687	687	682	685	686	686	686	682	13 35	694	5 22	665	17
673	677	675	673	669	667	669	669	668	673	2 42	690	5 27	661	18
672	672	671	670	669	669	669	669	668	671	3 53	689	1 29	662	19
677	678	678	678	678	678	678	679	679	673	23 59	681	6 9	658	20†
717	717	717	717	716	715	714	715	715	705	17 17	717	0 1	681	21†
710	710	709	708	706	705	706	705	705	**711**	3 27	**727**	23 3	704	22
694	693	694	694	693	692	691	691	691	691	3 9	714	5 21	653	23
687	686	687	687	687	686	674	685	683	685	2 45	697	5 35	672	24†
680	679	679	680	681	680	679	679	679	678	2 37	687	5 40	659	25
663	663	666	667	669	668	668	668	668	663	3 15	687	5 53	634	26
655	655	657	658	658	658	657	657	657	656	3 11	672	6 12	638	27†
643	645	647	647	649	646	649	646	643	**642**	3 31	671	6 5	**610**	28
665	663	666	669	670	671	671	671	672	652	23 53	674	6 25	615	29
672	671	672	675	675	675	675	675	675	671	11 5	681	6 29	639	30
678	677	680	682	683	683	683	684	685	675	23 59	689	5 31	645	31
673	673	674	675	675	674	674	674	674	672					Mean.
681	680	681	**682**	681	681	678	680	680	677					†Mean.

*See footnote on page 113.

†Five international quet days.

At Colaba, a day is classed as (1) a quiet day, or a day of (2) small, (3) moderate, (4) great or (5) very great disturbance, the letters for distinguishing each class being C, S, M, G and VG respectively. For representing intermediate conditions of activity of the smaller period movements, sub-classifications Ca, Sa and Ma are used. Roughly speaking a storm having a range over 225 γ in the variation of the horizontal force during the first twenty-four hours after its commencement is classed as "Very great". It is "Great" if the range is between 150 γ and 225 γ, "Moderate" if the range is between 65 γ and 150 γ and "Small" if the range is less than 65 γ. The range is however not the only criterion used in assigning the character of a storm. The oscillations in the magnetograms are duly taken into account in determining the class to which a particular storm should belong. During the year there were 5 days of very great, 8 of great, 39 of moderate and 133 of small disturbances. The following table gives a list of principal disturbances recorded during the year. Of the smaller disturbances, only those which showed special features have been included in this table.

PRINCIPAL MAGNETIC DISTURBANCES, 1927.

Date.	Time of beginning. G. M. T.	Duration in hours.	Horizontal force during storm.				Range.	Relative magnitude.	Remarks.
			Maximum.		Minimum.				
			Time.	Magnitude.	Time.	Magnitude.			
	H. M.		D. H. M.	γ	D. H. M.	γ	γ		
January 1	8 47	19	1 22 53	37138	1 16 13	37073	65	Sa	Commencement sudden.
„ 4	18 0	31	4 20 29	37167	4 22 49	37067	100	M	Commencement gradual.
„ 7	10 25	16	7 10 29	37109	7 17 13	36968	141	G	Commencement sudden.
„ 11	6 45	18	11 6 53	37123	11 18 29	37050	73	Sa	Do.
„ 12	5 44	17	12 6 57	37120	12 15 27	37049	71	Sa	Do.
„ 24	3 45	16	24 7 23	37216	24 19 27	37096	120	M	Do.
„ 24	23 41	17	25 5 53	37166	25 12 11	37094	72	Sa	Do.
„ 26	1 57	19	26 2 29	37112	26 6 37	37070	42	Sa	Do.
February 3	10 44	14	3 11 27	37145	3 22 45	37061	84	Sa	Do.
„ 9	16 58	11	9 17 2	37131	10 1 9	37041	90	Sa	Do.
„ 10	6 49	22	10 7 1	37143	10 13 47	37065	78	Sa	Do.
„ 12	5 0	42	12 6 53	37153	13 12 19	37042	111	Sa	Commencement gradual.
„ 24	5 0	47	24 5 49	37161	24 14 17	37036	125	Ma	Do.
			Mar.		Mar.				
„ 28	16 0	31	7 5 53	37122	1 14 21	37054	68	Sa	Do.
March 8	21 0	46	10 7 21	37123	10 12 25	37022	101	M	Do.
„ 15	15 0	34	16 4 14	37118	16 16 39	36992	126	Ma	Do.
„ 17	10 0	36	18 6 53	37133	17 17 57	37028	105	M	Do.
„ 19	16 29	32	20 5 57	37155	20 14 39	37033	122	M	Commencement sudden.
„ 26	3 0	24	26 6 43	37155	26 15 27	37026	129	M	Commencement gradual.
„ 27	14 33	27	27 19 33	37119	27 16 17	37039	80	M	Commencement sudden.
April 7	11 4	58	9 7 13	37188	9 16 53	37006	182	G	Do.
„ 11	3 0	32	12 7 37	37153	11 17 37	37019	134	M	Commencement gradual.
„ 13	23 49	25	14 6 21	37240	14 12 45	36878	362	VG	Commencement sudden.
„ 23	11 0	43	24 4 25	37151	24 15 7	37045	106	M	Commencement gradual.
May 3	12 37	62	4 6 4	37159	5 10 7	36993	166	Ma	Commencement sudden.
„ 7	3 0	42	7 7 17	37170	7 14 57	36978	192	G	Commencement gradual.
„ 15	3 0	43	16 6 49	37157	15 13 29	37060	97	Sa	Do.
„ 19	5 0	46	19 6 25	37183	20 14 57	37035	148	Ma	Do.
„ 27	5 0	44	27 7 49	37198	28 22 49	37078	120	M	Do.
June 1	17 0	41	2 7 29	37178	2 16 27	37100	78	Sa	Do.
„ 4	21 0	28	5 4 33	37186	5 12 49	37097	89	Sa	Do.
„ 11	4 0	44	12 7 33	37163	11 14 1	37093	70	Sa	Do.
„ 26	5 0	36	26 8 51	37210	26 14 52	37098	112	M	Do.
			July.		July.				
„ 30	11 0	38	1 7 5	37182	1 13 39	37085	97	Sa	Do.
July 7	3 43	20	7 6 17	37179	7 11 45	37071	108	M	Commencement sudden.
„ 21	21 5	47	21 21 33	37247	22 12 49	36978	269	VG	Do.
August 19	13 21	58	21 7 49	37327	21 10 29	37018	309	VG	Do.
„ 29	0 2	49	29 5 9	37170	30 12 49	37016	154	G	Do.
September 3	23 21	35	4 5 49	37152	4 14 45	37045	107	M	Do.
„ 6	6 0	45	6 16 45	37168	7 11 37	37065	103	M	Commencement gradual.
„ 8	12 0	45	9 7 45	37169	9 13 53	37078	91	M	Do.
„ 10	13 0	20	10 18 43	37155	10 21 29	37067	88	M	Do.
October 7	6 0	40	7 6 6	37170	8 10 37	37041	129	M	Do.
„ 9	14 37	36	10 8 45	37180	10 12 33	37047	133	G	Commencement sudden.
„ 12	10 19	36	12 10 29	37162	12 16 9	36802	360	VG	Do.
„ 22	6 39	41	22 7 39	37350	22 11 59	36940	410	VG	Do.
November 18	7 4	23	18 7 25	37213	18 21 1	37086	127	M	Do.
„ 28	22 0	52	29 5 37	37185	30 11 17	37087	98	Sa	Commencement gradual.
December 12	19 44	74	13 7 57	37213	13 15 21	37025	188	G	Commencement sudden.
„ 17	5 15	63	17 5 33	37169	18 14 13	37059	110	Ma	Do.
„ 28	14 38	16	28 14 47	37160	28 19 45	37069	91	M	Do.

Fourier analysis of the diurnal and annual variations of Horizontal force for the five International quiet days during 1927.

Diurnal variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.).

Annual variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 30° per average month.

Quantity.	Diurnal Variation.												Annual Variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sep.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	18·6	21·3	28·9	32·8	25·5	20·8	17·7	18·7	22·5	20·7	18·8	11·6	6·8
c_2	8·7	9·9	13·6	17·7	11·7	10·1	10·4	10·2	12·4	9·7	9·0	6·3	2·8
c_3	3·3	4·2	5·5	6·2	3·2	2·4	2·9	3·3	4·7	4·4	3·5	2·9	2·7
c_4	1·1	1·4	2·0	1·3	0·4	1·1	0·6	1·2	1·5	1·3	0·7	1·5	1·3
c_1/c_2	2·1	2·2	2·1	1·9	2·2	2·1	1·7	1·8	1.8	2·1	2·1	1·8	2·4
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	356 20	348 40	352 17	343 10	349 52	349 29	354 22	348 0	338 37	349 42	353 10	351 25	347 52
φ_2	250 32	259 20	256 14	241 24	253 35	244 43	251 0	244 31	229 3	251 36	259 2	249 34	133 0
φ_3	171 49	181 37	196 37	152 44	164 37	175 15	153 10	160 41	140 0	172 26	182 55	171 17	309 24
φ_4	39 28	92 53	121 15	85 53	218 40	175 17	323 30	124 43	62 55	68 2	49 54	50 53	211 21

Seismic Disturbances, 1927

(COLABA OBSERVATORY.)

Apparatus.—Milne-Shaw Seismograph (N.-S.) :

(in the underground constant temperature room).

Damping Ratio=20 : 1 ; V.=250 ; T_0=12 Sec. ; E=2·6.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927.		H. M. S.				1927—*contd.*		H. M. S.			
Jan. 3	P	22 25 11	..	..	Feeble shock.	Jan. 29	L	17 57 56	..	..	
	L	22 37 3	..	..			F	20 35 0	..	..	
	F	23 1 0	..	..		„ 30	P	8 56 20	..	..	
„ 7	e	2 3 0	..	..	Tremors.		S	8 58 56	..	..	
	f	12 48 0	..	..			L	9 0 15	..	..	
„ 12	P	0 19 11	..	..	Feeble shock.		M	9 2 8	11	20	
	F	0 49 1	..	..			F	10 1 0	..	..	
„ „	e	22 34 0	..	..	Tremors.	„ 31	e	1 1 0	..	..	Tremors.
	f	23 6 0	..	..			f	1 23 0	..	..	
„ 14	e	7 27 0	..	..		Feb. 1	P	18 9 9	..	..	
	f	Lost in shifting time.	..	..	Tremors.		S	18 19 30	..	..	
							L	18 40 59	..	..	
„ 17	P	22 8 39	..	..			M	18 45 39	22	12	
	S	22 17 9	..	..			F	20 25 0	..	..	
	L	22 31 9	..	..		„ 3	P	4 8 17	..	..	
	M	22 35 44	17	7			S	4 11 27	..	..	
	F	23 11 9	..	..			Le	4 13 47	..	..	
„ 20	P	8 56 6	..	..	Feeble shock.		M	4 21 37	19	16	
	L	9 0 43	..	..			F	5 59 0	..	..	
	Fe	9 10 0	..	..		„ 4	P	3 6 28	..	..	Slight shock.
„ 24	P	1 18 35	..	..			S	3 14 16	..	..	
	S	1 30 9	..	..			L	3 25 58	..	..	
	Le	1 58 17	..	..			F	4 35 0	..	..	
	M	2 12 42	18	16		„ 13	P	3 38 8	..	..	
	F	4 23 0	..	..			S	3 41 50	..	..	
„ „	P	7 5 45	..	..			L	3 43 30	..	..	
	S	7 18 30	..	..			M	3 44 38	6	16	
	L	7 48 5	..	..			F	4 16 0	..	..	
	M	7 49 5	20	5		„ 16	P	1 46 35	..	..	
	Fe	8 49 0	..	..			S	1 55 53	..	..	
„ 25-26	P	25th 23 31 4	..	..	Feeble shock.		L	2 13 3	..	..	
	F	26 0 58 29	..	..			M	2 23 8	13	36	
„ 26	Pe	15 53 0	..	..	Very feeble shock.		F	5 56 0	..	..	
	F	17 25 0	..	..		„ „	P	8 47 57	..	..	Slight shock.
„ 27	P	8 19 37	..	..	Feeble shock.		S	8 57 11	..	..	
	M	8 24 47	20	6			Le	9 13 51	..	..	
	F	9 6 0	..	..			M	9 26 43	13	3	
„ 29	P	17 47 6	..	..	Slight shock.		F	9 57 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Feb. 16	P	12 3 49	..	..	
	S	12 13 1	..	..	
	Le	12 29 19	..	..	
	M	12 37 21	15	6	
	F	13 22 0	..	..	
„ „	e	14 6 0	..	..	Tremors.
	f	15 36 0	..	..	
„ 18	Pe	23 8 54	..	..	Slight shock.
	Se	23 13 14	..	..	
	F	23 45 9	..	..	
„ 21	P	12 34 12	..	..	
	S	12 41 36	..	..	
	L	12 52 6	..	..	
	M	13 5 41	16	4	
	F	14 2 0	..	..	
„ 22	P	20 13 19	..	..	
	M	20 18 44	17	10	
	F	21 3 0	..	..	
„ 28	*Pe	15 12 21	..	..	
	M	15 24 33	..	..	
	F	16 16 0	..	..	
Mar. 3	*P	1 16 31	..	..	
	S	1 22 31	..	..	
	L	1 28 49	..	..	
	M	1 36 1	..	..	
	F	3 0 0	..	..	
„ 7†	P	9 37 29	..	..	
	S	9 45 31	..	..	
	L	9 57 9	..	..	
	M	10 3 17	..	..	
	F	11 39 0	..	..	
„ 7	*P	9 37 23	..	..	
	S	9 45 17	..	..	
	L	9 57 3	..	..	
	M	10 4 23	..	..	
	Fe	11 39 0	..	..	
„ 21	*Pe	15 22 21	..	..	
	M	15 34 27	..	..	
	F	16 8 0	..	..	
Apr. 11	Pe	22 13 16	..	..	Feeble shock.
	S	22 20 56	..	..	
	F	23 14 0	..	..	
„ 13	P	13 52 22	..	..	
	S	13 59 52	..	..	
	L	14 10 27	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
April 13	M	15 11 7	18	8	
	F	15 25 0	..	..	
„ 14	P	6 43 2	..	..	
	Se	6 54 42	..	..	
	L	7 23 22	..	..	
	M	7 27 37	18	10	
	F	10 5 0	..	..	
„ 16	P	8 27 42	..	..	
	S	8 38 17	..	..	
	L	8 59 42	..	..	
	M	9 4 17	19	16	
	F	11 11 0	..	..	
„ 18	P	15 6 30	..	..	Slight shock.
	S	15 9 52	..	..	
	F	15 43 0	..	..	
„ 19	*P	17 37 44	..	..	
	M	17 55 54	..	..	
	F	18 23 0	..	..	
„ 20	P	14 20 56	..	..	
	S	14 25 4	..	..	
	L	14 28 6	..	..	
	M	14 29 31	9	4	
	F	15 15 0	..	..	
„ 24	P	11 24 25	..	..	Feeble shock.
	Se	11 27 40	..	..	
	F	11 47 0	..	..	
„ 26	e	12 5 20	..	..	Tremors.
	f	13 9 0	..	..	
„ 27	Pe	19 26 40	..	..	Slight distant shock.
	M	19 53 35	17	3	
	F	20 52 0	..	..	
„ 28	P	2 12 50	..	..	Slight shock.
	L	2 20 30	..	..	
	F	2 43 0	..	..	
„ 30	P	14 1 25	..	..	
	S	14 5 15	..	..	
	L	14 7 25	..	..	
	M	14 9 45	10	14	
	F	15 10 0	..	..	
May 2	e	12 42 28	..	..	Tremors.
	f	13 14 0	..	..	
„ 2	P	22 13 47	..	..	Feeble shock.
	M	22 18 59	10	3	
	F	22 38 0	..	..	
„ 9	P	5 20 0	..	..	Thickening of line may be due to local shock.
	F.	5 21 0	..	..	

*From Colaba Seismograph No. 2 (N.-S. Component). † From Colaba Seismograph No. 1 (E. W. Component).

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
	P	5 42 20	..	..	Thickening of line may be due to Local Shock.
	F	5 43 0	..	..	
May 9	P	10 35 50	..	..	
	S	10 41 17	..	..	
	L	10 45 50	..	..	
	M	10 46 27	15	11	
	F	11 48 0	..	..	
„ 10	e	1 0 0	..	..	Tremors.
	f	1 17 0	..	..	
„ 10	P	6 10 33	..	..	
	S	6 15 52	..	..	
	L	6 21 8	..	..	
	M	6 23 25	19	7	
	F	7 16 0	..	..	
„ 10	e	7 39 0	..	..	Feeble shock.
	f	8 21 0	..	..	
„ 11	e	1 40 0	..	..	Tremors.
	f	1 55 0	..	..	
„ 13	P	15 22 3	..	..	Slight shock.
	S	15 28 3	..	..	
	Le	15 33 53	..	..	
	F	16 4 0	..	..	
„ 13—14	P	23 20 42	..	..	Slight shock.
	M	23 32 12	8	2	
	F	0 22 0	..	..	
„ 15	e	3 2 0	..	..	Tremors.
	f	3 46 0	..	..	
„ 16	e	12 10 0	..	..	Tremors.
	f	13 10 0	..	..	
„ 17	P	6 16 56	..	..	
	S	6 21 14	..	..	
	L	6 24 4	..	..	
	M	6 28 56	15	4	
	F	6 56 0	..	..	
„ 20	Pe	10 58 51	..	..	Slight shock.
	S	11 1 24	..	..	
	L	11 2 24	..	..	
	F	11 23 0	..	..	
„ 21	e	7 7 0	..	..	Feeble shock.
	f	7 43 0	..	..	
„ 22	e	21 55 8	..	..	Tremors.
	f	22 18 0	..	..	
„ 22—23	P	22 39 15	..	..	
	S	22 44 53	..	..	
	F	2 50 0	..	..	
1927—*contd.*		H. M. S.			
May 23	P	2 57 37	..	..	
	M	3 3 52	15	26	
	F	3 32 0	..	..	
„ „	e	4 0 0	..	..	Tremors.
	f	5 11 0	..	..	
„ „	e	6 46 0	..	..	Tremors.
	f	7 9 0	..	..	
„ „	e	13 2 0	..	..	Tremors.
	f	13 10 0	..	..	
„ „	P	14 3 1	..	..	Slight shock.
	S	14 7 7	..	..	
	M	14 9 24	10	7	
	F	14 36 0	..	..	
„ 23	e	22 33 0	..	..	Tremors.
	f	23 22 0	..	..	
„ 23—24	Pe	23 55 34	..	..	Slight shock.
	S	23 59 40	..	..	
	M	0 2 50	12	7	
	F	0 32 0	..	..	
„ 24	e	17 17 0	..	..	Feeble shock.
	f	17 34 0	..	..	
„ 27	P	3 8 41	..	..	Feeble shock.
	M	3 13 12	10	3	
	F	3 32 0	..	..	
„ 28	e	23 0 0	..	..	Tremors.
	f	23 19 0	..	..	
„ 29	e	10 42 0	..	..	Tremors.
	f	10 56 0	..	..	
June 2	Pe	6 8 2	..	..	Feeble shock.
	S	6 9 22	..	..	
	F	6 31 0	..	..	
„ „	P	16 39 47	..	..	
	S	16 41 32	..	..	
	Le	16 42 12	..	..	
	F	18 7 0	..	..	
„ „	P	19 32 45	..	..	Local shock.
	S	19 32 55	..	..	
	L	19 33 3	..	..	
	F	19 43 0	..	..	
„ 3†	P	7 22 34	..	..	
	S	7 30 50	..	..	
	L	7 43 47	..	..	
	M	7 46 22	..	..	
	Fe	9 49 0	..	..	
„ „*	P	7 22 35	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
June 3	S	7 30 48	..	..	
	L	7 43 47	..	..	
	M	7 45 40	..	..	
	Fe	9 49 0	..	..	
„ 6	e	19 28 0	..	..	Tremors.
	f	19 49 0	..	..	
„ 11	Pe	2 50 30	..	..	Feeble shock.
	f	3 38 0	..	..	
„ 14	Pe	17 30 6	..	..	
	S	17 40 29	..	..	
	L	18 0 41	..	..	
	M	18 9 11	16	8	
	F	19 1 0	..	..	
„ 16	e	2 51 0	..	..	Tremors.
	f	3 5 0	..	..	
„ 20	e	14 54 3	..	..	Tremors.
	f	15 7 0	..	..	
„ 21-22	Pe	23 54 14	..	..	Feeble shock.
	S	23 58 34	..	..	
	Le	0 2 0	..	..	
	f	0 30 0	..	..	
„ 23-24	Pe	23 57 57	..	..	Feeble shock.
	M	0 0 14	10	3	
	F	0 23 0	..	..	
„ 26	P	11 28 37	..	..	Feeble shock.
	S	11 34 42	..	..	
	L	11 41 22	..	..	
	F	12 15 0	..	..	
July 1	P	8 27 31	..	..	
	S	8 34 21	..	..	
	F	9 11 0	..	..	
„ 2	e	20 54 0	..	..	Tremors.
	f	21 9 0	..	..	
„ 7	P	20 9 27	..	..	
	Se	20 12 5	..	..	
	L	20 13 23	..	..	
	Fe	20 42 0	..	..	
„ 11	P	13 11 11	..	..	
	S	13 16 51	..	..	
	L	13 22 11	..	..	
	M	13 30 1	16	12	
	F	14 6 0	..	..	
„ 12	P	20 26 56	..	..	
	Fe	21 7 0	..	..	
„ 14-15	P	23 35 46	..	..	Feeble shock.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.* July 14-15		H. M. S. 15th			
	F	0 10 0	..	..	
July 15	P	3 53 40	..	..	Feeble shock.
	F	4 10 0	..	..	
„ 15	Pe	21 17 51	..	..	Do.
	M	21 25 11	9	2	
	F	21 44 0	..	..	
„ 20	P	19 15 42	..	..	Slight shock.
	M	19 22 14	10	3	
	Fe	19 33 0	..	..	
„ 22	P	4 0 20	..	..	
	S	4 5 33	..	..	
	L	4 9 57	..	..	
	M	4 14 50	13	41	
	F	5 14 0	..	..	
„ „	e	5 41 0	..	..	Tremors.
„ „	f	5 49 0	..	..	
„ „	P	8 47 8	..	..	Feeble shock.
	M	8 56 48	10	3	
	F	9 9 0	..	..	
„ 23	P	20 23 2	..	..	
	S	20 27 21	..	..	
	L	20 30 16	..	..	
	M	20 37 50	12	18	
„ „	F	21 10 0	..	..	
	P	22 45 38	..	..	
	S	22 49 53	..	..	
	L	22 52 42	..	..	
	M	23 0 18	10	11	
	F	23 24 0	..	..	
„ 28	e	17 6 0	..	..	Tremors.
	f	17 30 0	..	..	
„ 29	P	0 6 25	..	..	
		0 9 0	..	..	
		0 10 5	..	..	
	F	1 9 0	..	..	
Aug. 1	e	17 47 0	..	..	Tremors.
	f	18 19 0	..	..	
„ „	e	19 18 0	..	..	Tremors.
	f	20 15 0	..	..	
„ 5—6	P	21 23 13	..	..	
	S	21 31 43	..	..	
	L	21 45 58	..	..	
	M	21 53 3	16	20	
	F	0 22 0	..	..	
„ 6	e	0 38 0	..	..	Tremors.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Aug. 6	f	1 40 0	..	..	
„ 8	e	18 56 0	..	..	Tremors.
	f	19 27 0	..	..	
„ 10	P	1 55 15	..	..	
	S	2 5 18	..	..	
	Le	2 25 23	..	..	
	M	2 57 43	26	85	
	F	Lost owing to stoppage of driving clock.			
„ „	P	11 46 19	..	..	
	S	11 54 37	..	..	
	L	12 7 54	..	..	
	M	12 10 11	17	29	
	F	14 33 0	..	..	
„ 12	P	10 27 49	..	..	
	S	10 31 49	..	..	
	L	10 34 12	..	..	
	M	10 36 49	10	8	
	F	11 6 0	..	..	
„ „	P	16 25 54	..	..	
	S	16 28 34	..	..	
	Le	16 29 59	..	..	
	M	16 30 52	10	2	
	F	16 47 0	..	..	
„ 16	e	5 22 0	..	..	Tremors.
	f	5 38 0	..	..	
„ 18	Pe	1 54 59	..	..	Feeble shock.
	F	2 27 0	..	..	
„ „	P	19 38 13	..	..	
	S	19 46 43	..	..	
	L	20 0 42	..	..	
	M	20 10 54	18	28	
	F	22 27 0	..	..	
„ 20	Pe	21 48 17	..	..	Feeble shock.
	S	21 56 15	..		
	Le	22 8 57	..	..	
	F	22 44 0	..	..	
„ 21	P	0 14 8	..	..	
	S	0 27 48	..	..	
	L	1 7 59	..	..	
	M	1 16 29	22	10	
	F	Lost owing to stoppage of driving clock.			
„ 22	e	18 54 0	..	..	Tremors.
	f	19 18 0	..	..	
„ 23	P	6 47 50	..	..	Feeble shock.

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Aug.	F	8 7 0	..	..	
„ 24	P	9 15 3	..	..	Feeble shock.
	L	9 32 48	..	..	
	F	9 57 0	..	..	
„ „	P	18 17 16	..	..	
	S	18 24 8	..	..	
	L	18 33 6	..	..	
	M	18 40 11	16	10	
	F	19 25 0	..	..	
„ 25	e	17 9 40	..	..	Tremors.
	f	17 28 0	..	..	
„ „	P	23 6 29	..	..	
	Se	23 9 44	..	..	
	L	23 11 24	..	..	
	F	23 34 0	..	..	
„ 27	e	12 48 0	..	..	Tremors.
	f	13 11 0	..	..	
„ 29	e	8 19 0	..	..	Tremors.
	f	8 35 0	..	..	
„ 30	e	21 22 0	..	..	Tremors.
	f	21 34 0	..	..	
Septr. 3	P	20 6 59	..	..	Slight shock.
	S	20 16 24	..	..	
	L	20 33 24	..	..	
	M	20 53 54	15	6	
	F	22 8 0	..	..	
„ 5	Pe	1 1 55	..	..	Feeble shock.
	M	1 19 42	16	4	
	F	2 20 0	..	..	
„ 7	P	20 19 45	..	..	Feeble shock.
	S	20 28 15	..	..	
	L	20 42 20	..	..	
	M	20 46 2	20	6	
	F	21 27 0	..	..	
„ 9-10	P	9th 23 30 55	..	..	Feeble shock.
	Se	23 37 15	..	..	
	L	23 44 55	..	..	
	F	10th 0 18 0	..	..	
„ 10	P	16 37 49	..	..	Feeble shock.
	S	16 45 19	..	..	
	Le	16 55 59	..	..	
	F	17 39 0	..	..	
„ 11	e	20 36 0	..	..	Tremors.
	f	20 44 0	..	..	
„ 11-12	P	11th 22 23 34	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Sep. 11-12	S	22 29 39	..	..	
	L	22 35 49	..	..	
	M	22 49 17	12	12	
	F	0 42 0	..	..	
„ 12	e	3 28 0	..	..	Tremors.
	f	4 20 0	..	..	
„ 13	e	10 41 0	..	..	Tremors.
	f	11 46 0	..	..	
„ 16	Pe	15 56 35	..	..	Feeble shock.
	F	16 53 0	..	..	
„ 23	P	13 59 42	..	..	
	S	14 4 2	..	..	
	F	15 7 0	..	..	
„ 29	P	6 22 6	..	..	
	S	6 23 51	..	..	
	L	6 24 31	..	..	
	F	6 34 0	..	..	
„ 30	e	7 57 0	..	..	Tremors.
	f	8 32 0	..	..	
„ „	e	18 49 0	..	..	„
	f	19 3 0	..	..	
Oct. 7	P	21 43 57	..	..	Feeble shock.
	Se	21 44 57	..	..	
	F	22 3 0	..	..	
„ 8	P	10 37 35	..	..	
	S	10 40 5	..	..	
	L	10 41 10	..	..	
	F	11 24 0	..	..	
„ 12	e	6 52 0	..	..	Tremors.
	f	7 16 0	..	..	
„ 16	e	7 17 0	..	..	Tremors.
	f	7 23 0	..	..	
„ „	P	12 39 58	..	..	Feeble shock.
	Se	12 43 53	..	..	
	M	12 52 53	17	3	
	F	13 18 0	..	..	
„ 19	e	22 39 0	..	..	Tremors.
	f	22 53 0	..	..	
„ 24	P	16 13 40	..	..	
	S	16 24 20	..	..	
	L	16 46 15	..	..	
	M	17 4 17	19	27	
	F	19 4 0	..	..	
„ 27	P	7 12 37	..	..	Feeble shock.
	S	7 13 27	..	..	

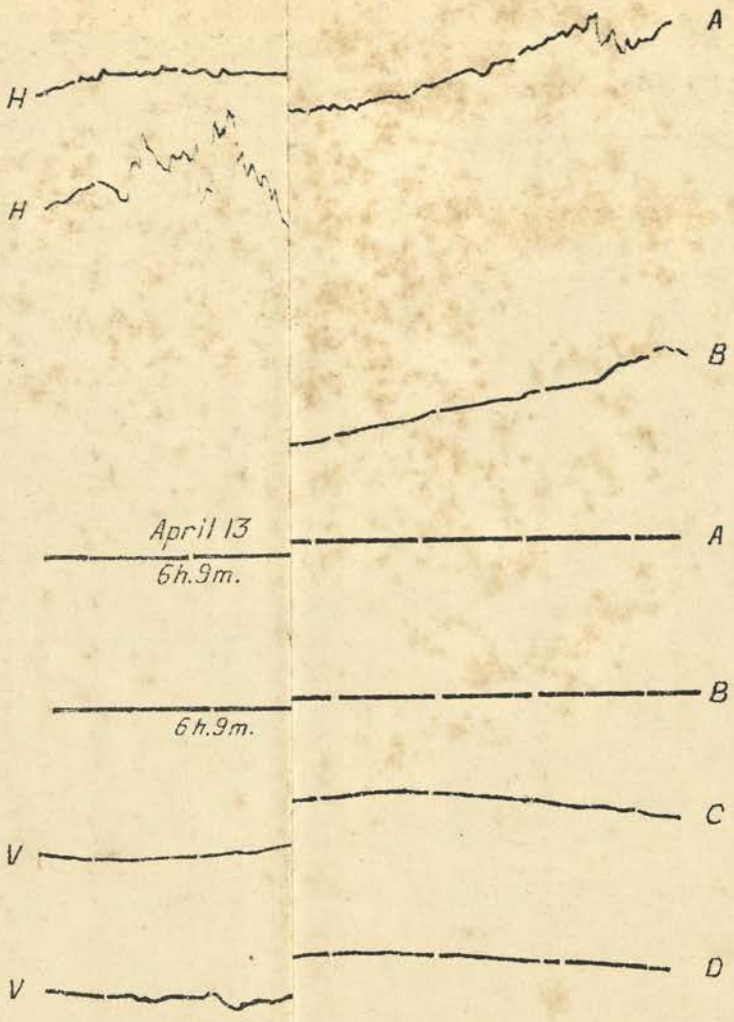
Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Oct. 27	L	7 13 42	..	..	
	Fe	7 24 0	..	..	
„ 29	P	1 29 25	..	..	Feeble shock.
	Se	1 33 15	..	..	
	L	1 35 35	..	..	
	F	1 49 0	..	..	
Nov. 2	P	21 13 45	..	..	Slight shock.
	S	21 19 40	..	..	
	Le	21 26 30	..	..	
	F	22 11 0	..	..	
„ 3	e	8 24 0	..	..	Tremors.
	f	8 28 0	..	..	
„ 4	Pe	14 9 37	..	..	
	S	14 21 52	..	..	
	L	14 49 57	..	..	
	M	15 9 42	16	4	
	F	16 41 0	..	..	
„ 5	P	6 46 26	..	..	
	Se	6 54 27	..	..	
	F	7 22 0	..	..	
„ 6	P	15 44 36	..	..	Slight shock.
	S	15 52 34	..	..	
	F	16 24 0	..	..	
„ 8	P	3 19 59	..	..	
	S	3 27 39	..	..	
	L	3 38 59	..	..	
	M	3 41 41	16	5	
	F	4 53 0	..	..	
„ 9	e	1 27 0	..	..	Tremors.
	f	1 44 0	..	..	
„ 14	P	0 22 19	..	..	
	S	0 30 32	..	..	
	L	0 43 32	..	..	
	M	0 50 12	8	11	
	F	1 32 0	..	..	
„ „	P	5 6 47	..	..	
	S	5 15 7	..	..	
	L	5 28 19	..	..	
	M	5 34 34	10	17	
	F	6 34 0	..	..	
„ „	P	7 39 2	..	..	Slight shock.
	M	8 38 19	20	6	
	F	9 31 0	..	..	
„ „	Pe	15 28 12	..	..	Feeble shock.
	f	16 29 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Nov. 15	P	8 41 56	..	..	Slight shock.
	S	8 52 16	..	..	
	Le	9 12 39	..	..	
	F	9 39 0	..	..	
„ „	P.	22 7 29	..	..	Slight Shock.
	M	22 26 49	10	1	
	F	22 47 0	..	..	
„ 16	P	21 19 44	..	..	
	S	21 26 44	..	..	
	Le	21 34 34	..	..	
	M	21 35 20	19	23	
	F	23 17 0	..	..	
„ 18	P	3 33 56	..	..	
	S	3 41 24	..	..	
	Le	3 50 44	..	..	
	F	4 36 0	..	..	
„ „	P	11 2 54	..	..	
	S	11 3 52	..	..	
	L	11 4 14	..	..	
	F	11 24 0	..	..	
„ 21—22	P	23 35 21	..	..	
	Se	23 46 51	..	..	
	L	0 11 36	..	..	
	M	0 36 23	19	7	
	F	2 6 0	..	..	
„ 26	P	13 13 13	..	..	
	S	13 16 38	..	..	
	L	13 18 43	..	..	
	F	14 33 0	..	..	
„ 28	P	11 14 40	..	..	
	S	11 18 35	..	..	
	F	11 56 0	..	..	
„ 29	P	11 40 37	..	..	
	S	11 42 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1927—*contd.*		H. M. S.			
Nov. 29	L	11 42 32	..	..	
	M	11 44 52	8	3	
	F	12 2 0	..	..	
Dec. 1	P	4 46 23	..	..	
	S	4 53 38	..	..	
	L	5 3 18	..	..	
	M	5 7 48	16	3	
	F	6 4 0	..	..	
„ „	P	22 52 43	..	..	
	M	23 0 55	10	1	
	F	23 12 0	..	..	
„ „	e	18 43 0	..	..	Tremors.
	f	18 59 0	..	..	
„ „	e	4 16 0	..	..	Tremors.
	f	4 23 0	..	..	
„ „	P	17 35 13	..	..	Slight shock.
	S	15 42 45	..	..	
	L	17 52 5	..	..	
	M	17 59 5	20	4	
	F	18 26 0	..	..	
„ 25	P	6 46 10	..	..	Local shock.
	S	6 46 27	..	..	
	L	6 46 32	..	..	
	F	6 49 0	..	..	
„ 28	P	9 6 27	..	..	
	S	9 16 9	..	..	
	L	9 34 44	..	..	
	M	9 36 29	17	5	
	F	10 10 0	..	..	
„ „	P	18 32 1	..	..	
	S	18 41 31	..	..	
	L	18 59 1	..	..	
	M	19 2 11	20	239	
	F	21 24 0	..	..	

G1PD—160 CPB(P)—30-4-31—250.

Plate I.



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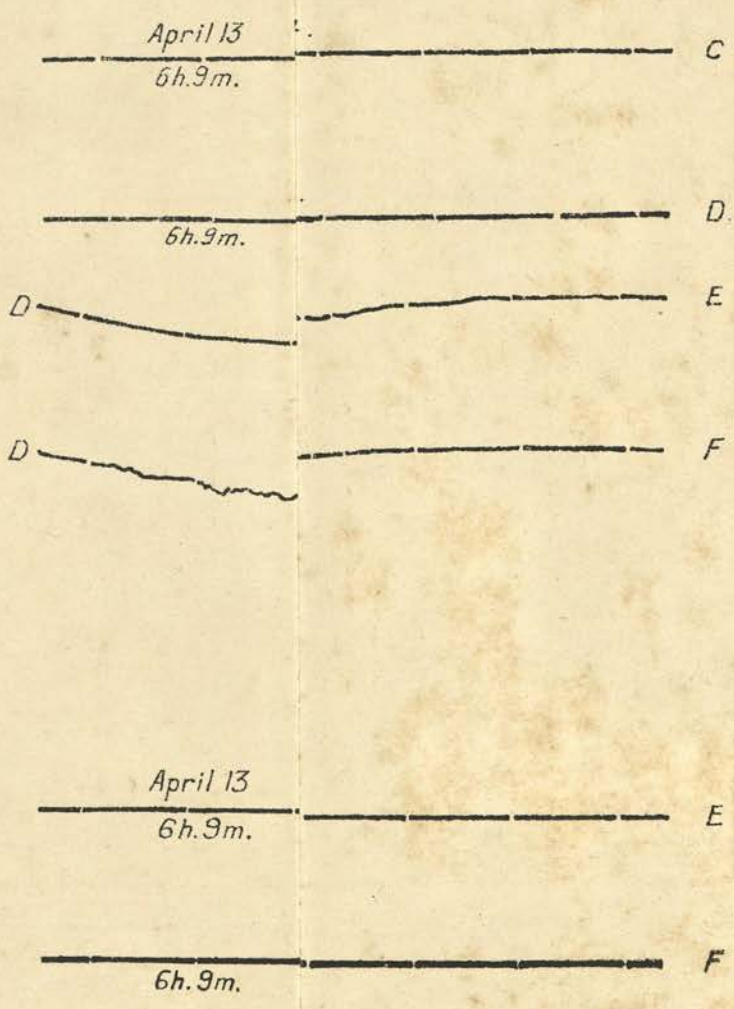
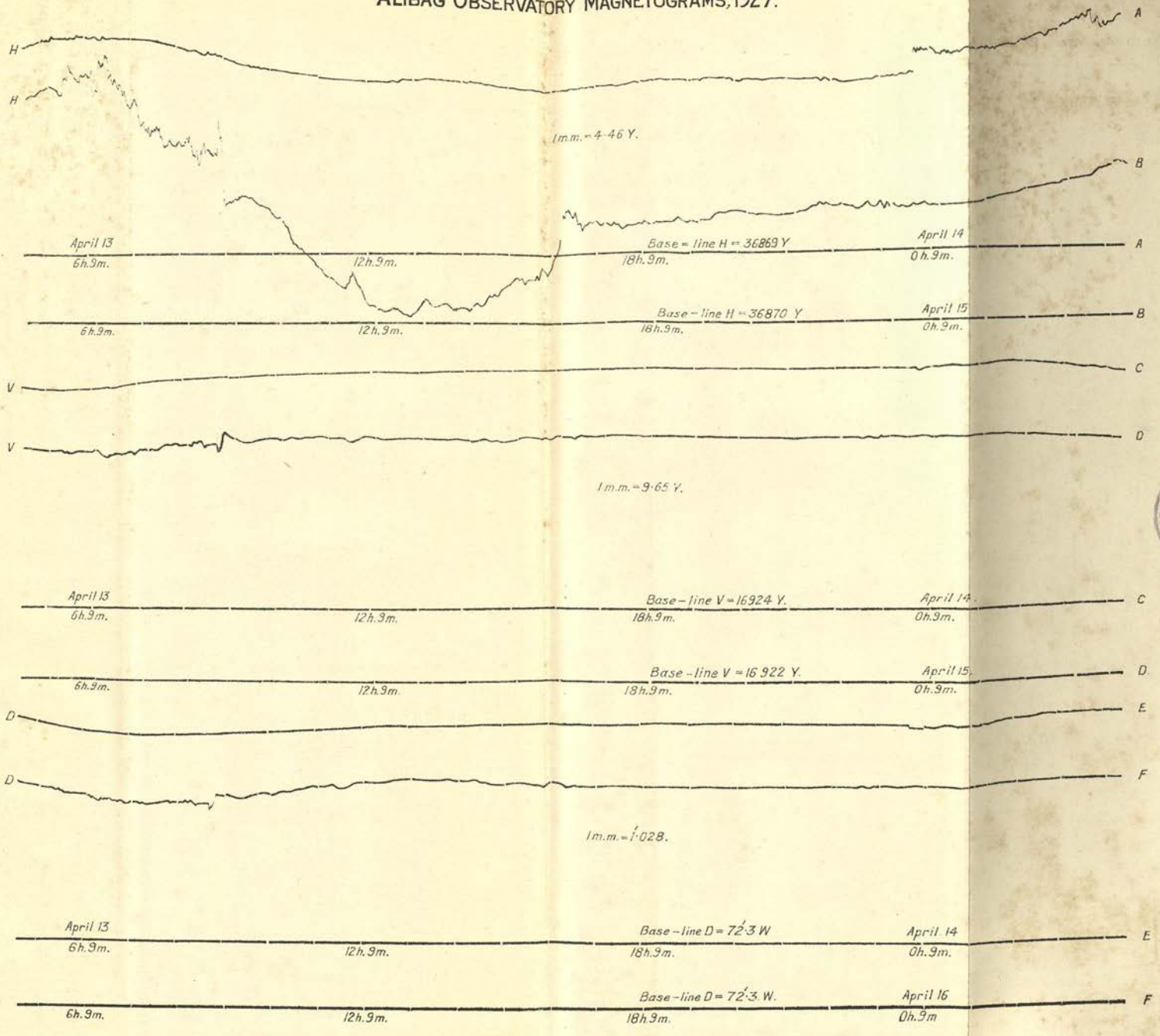


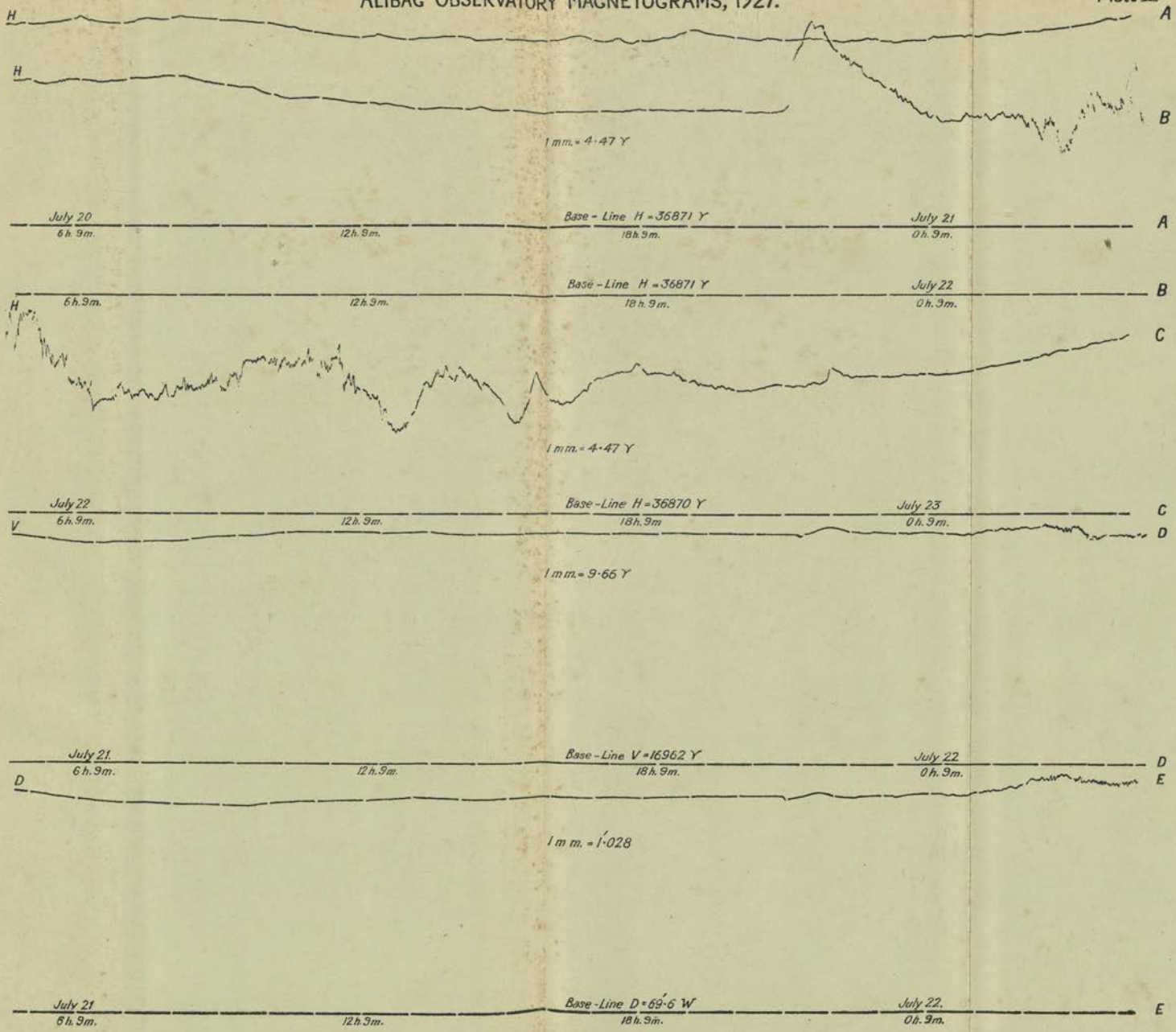
Plate I.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.



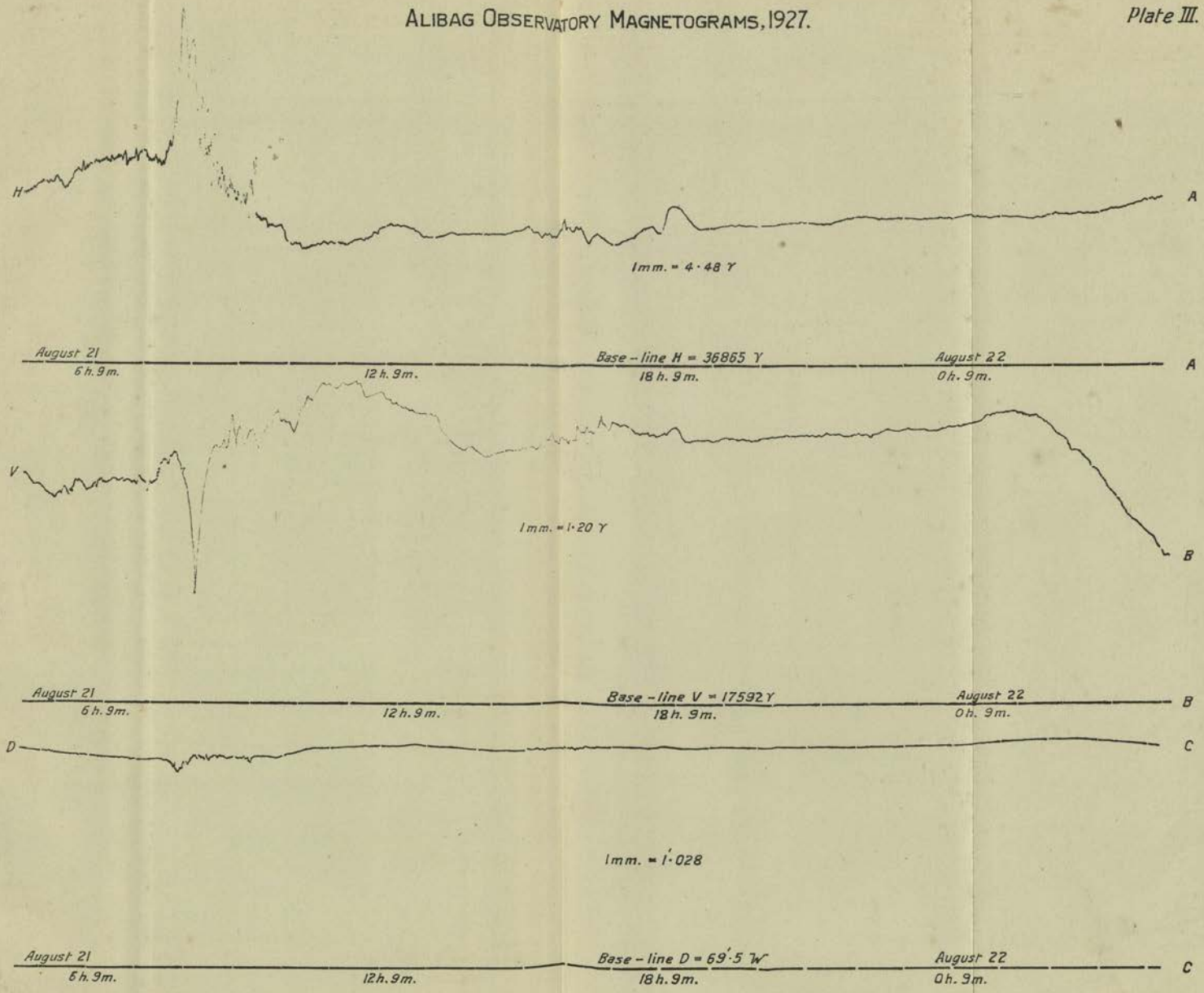
ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.

Plate II.



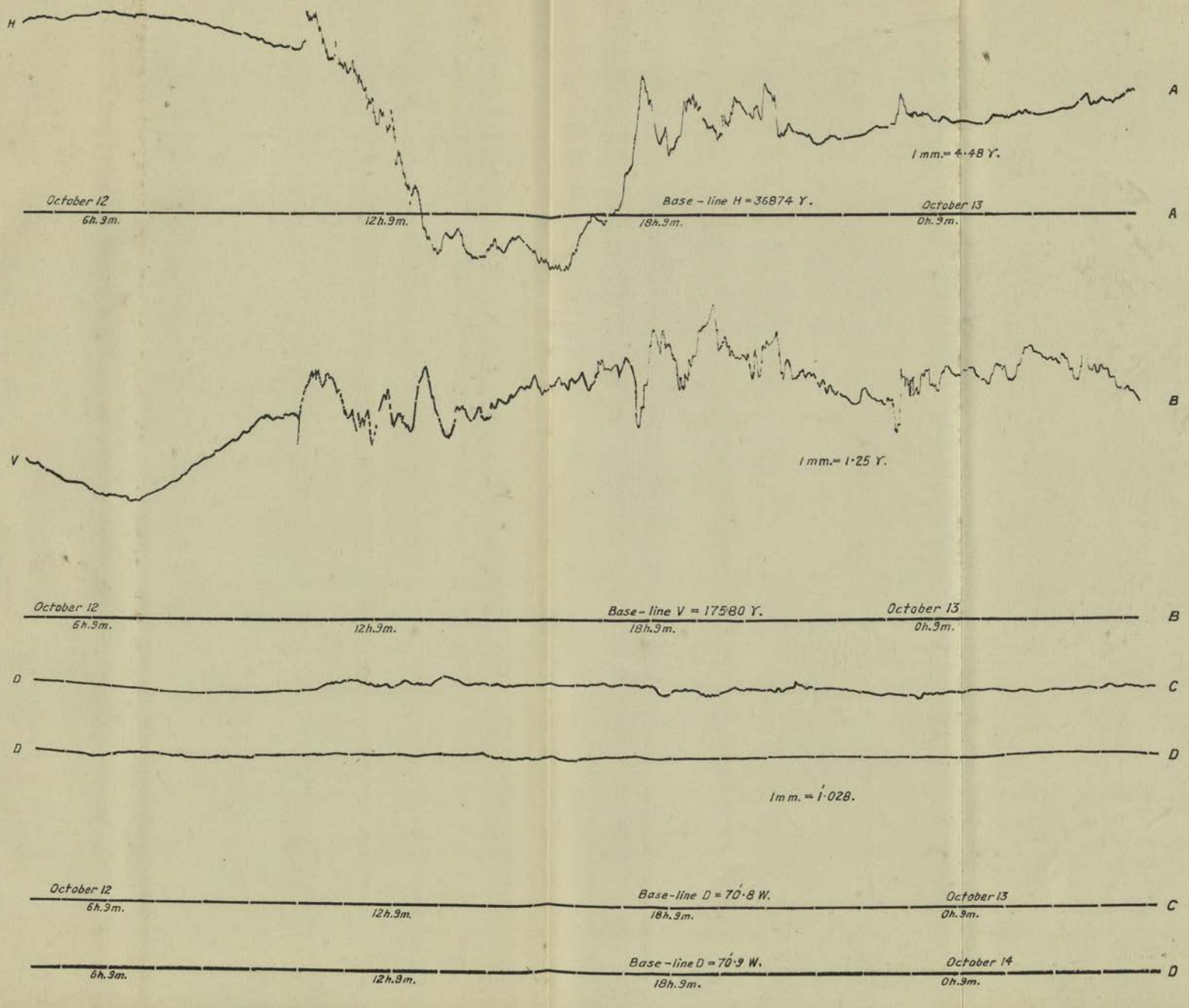
ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.

Plate III.



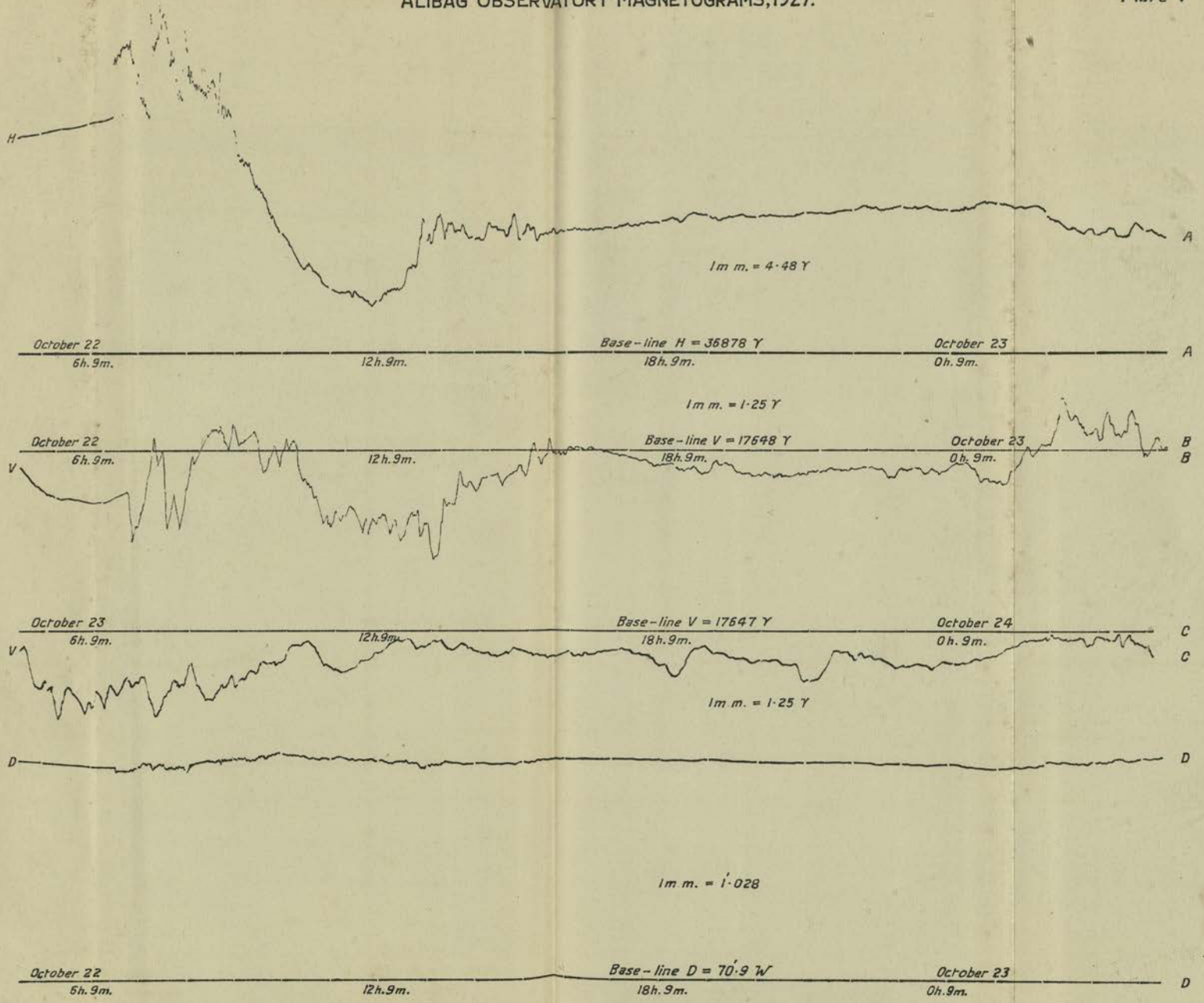
ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.

Plate IV.



ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.

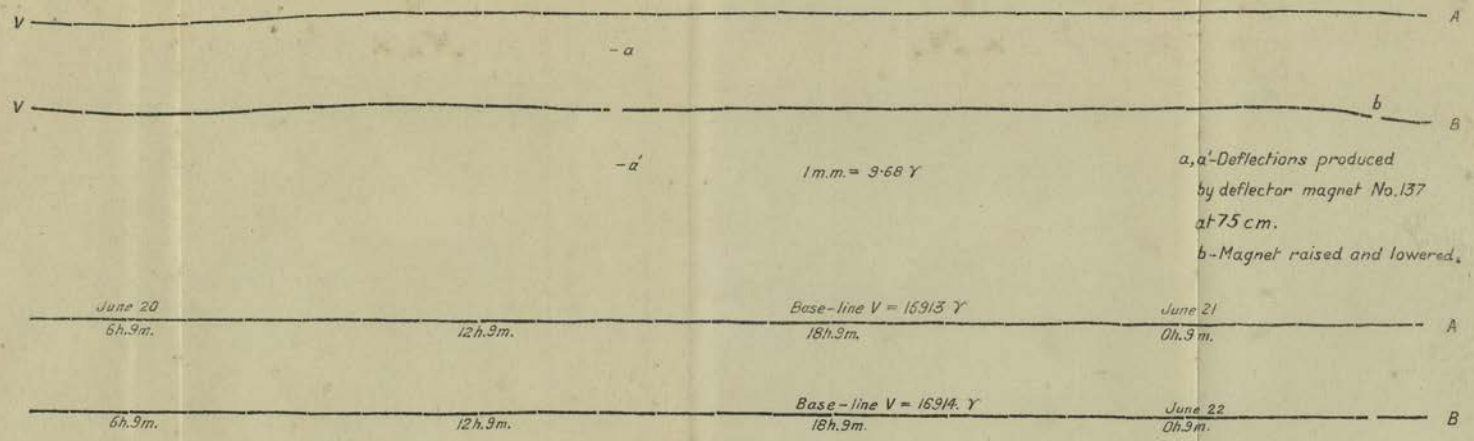
Plate V



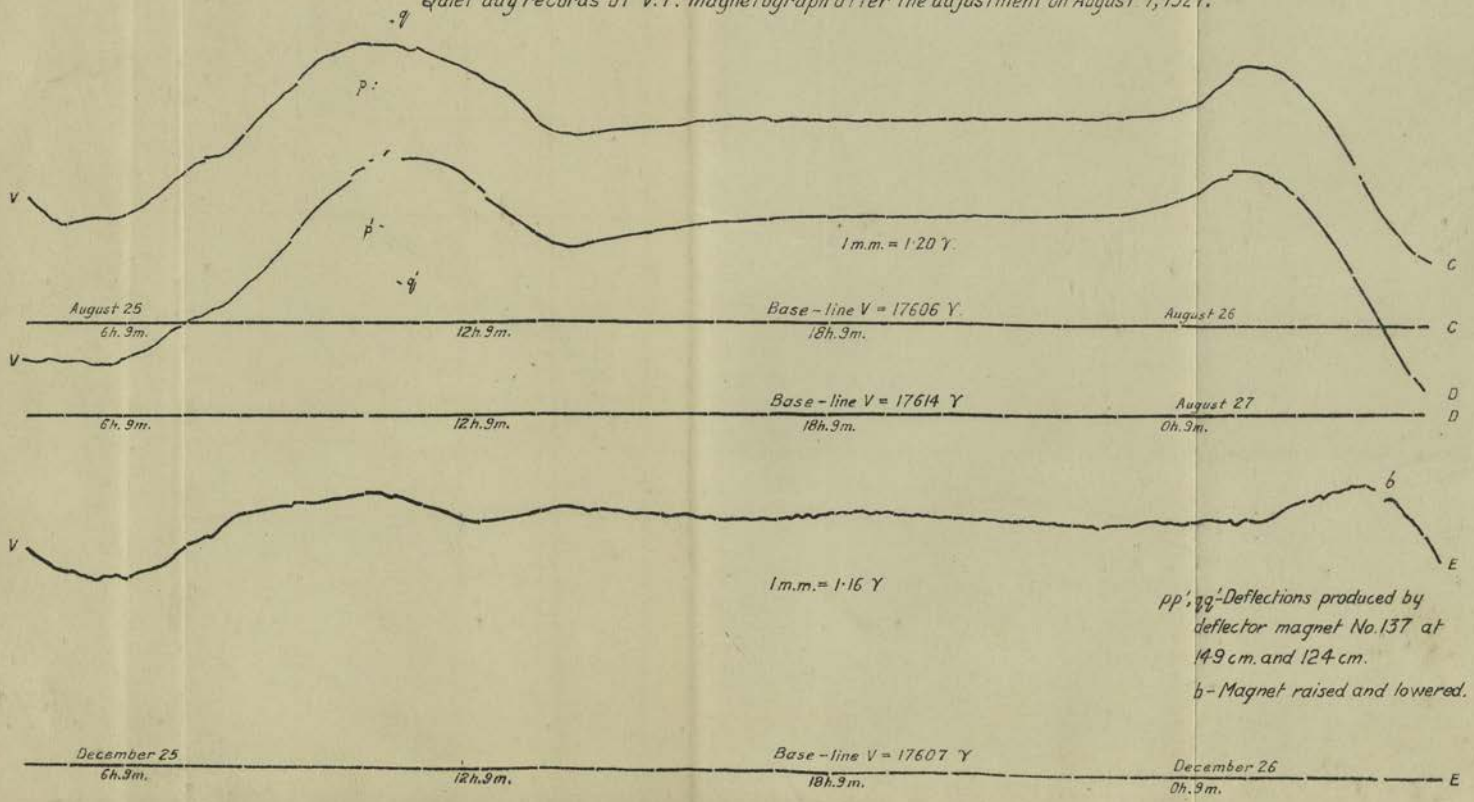
ALIBAG OBSERVATORY MAGNETOGRAMS, 1927.

Plate VI.

Quiet day records of V. F. magnetograph before the adjustment on August 7, 1927.



Quiet day records of V. F. magnetograph after the adjustment on August 7, 1927.



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